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SPECTRUM

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Spectrum is an e-magazine with the comprehensive collection of all the papers that have been published in our journal over the last two months — Volume 8, Issue 3 (May-June, 2022). This edition brings together 133 papers by 373 authors from 108 institutions. Each entry links to the abstract and the full paper.

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ABSTRACTS

1 Analysis of Marital Rape as an Exemption

Paper ID V8I3-1139 · Pages 1-8 · Marital Rape (law)

Shradha Alanghat, Student, School of Law, Christ (Deemed To Be University), Bengaluru, Karnataka

Marital rape is an issue that reflects the socio-cultural conditioning of marriage in a manner that leads to gender disparity in the essential aspect of decision-making that forms the basis for every individual's existence. Women experience the dark side of marital relations, subjecting themselves to the gender roles instilled in them by society. In India, women are subject to veritable societal and cultural expectations. The patriarchal roots of society have viewed women as instruments to fulfill familial expectations rather than their expectations about her life. Such an idea is perceived as a norm even in today's world, despite advancements seen in various aspects of gender studies. India indeed has granted equality to women in social, political, and economic spheres. There is hidden hypocrisy within the social realm as these advancements do not influence gender equality in various households. The paper aims to delve into socio-legal aspects of the issue of marital rape. The initial section of the article gives an insight into the philosophical dimension of the problem, which offers veritable views from philosophers. This enables us to think from some realms of morality and ethics in a more specialized manner. The second section deals with some of the prevalent justifications restricting the criminalization of this primitive social norm. The author has also attempted to decipher the validity of such explanations by various societies and governments in pertinence to the issue's intensity. The subsequent section offers a brief description of the backward and arbitrary nature of 'consent.' The author questions the narrow approach towards understanding the concept of 'consent, an essential character binding a marriage. The following section delves into the legal aspects of such an exception, offering a detailed description of the legal lacunae posed by such an exception. This section explains the contradictory nature of the legal exception with the Constitution, which is the supreme law of the land. The succeeding area puts forth a psychological understanding of the victims of this inhumane form of violence through the theory of 'learned helplessness.' The paper's final section lays an account of the prevalence of the issue in rural and urban areas, respectively.

Keywords: Patriarchy, Conditioning, Gender Roles, Equality, Criminalisation

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2 Solar-Powered Automatic Braking System and Bumper Actuation with Bluetooth Control

Paper ID V8I3-1151 · Pages 9-12 · Mechanical Engineering

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Human life spans are shorter today than they were in the past because automobile usage is increasing by the day, and the death rate from accidents has risen dramatically. Many accidents occur as a result of brake failure, unconsciousness of the driver, and overspeeding of the vehicle, thus controlling the brake automatically helps decrease the impact of an accident. The bumpers which are currently used in vehicles are of rigid types. These bumpers have a specific capacity and when the range of the accidental force is very high then the bumper fails and the force is transferred toward the driver & passengers. To overcome this, our project is designed with an ULTRASONIC SENSOR, BLUETOOTH CONTROLLER, and ARDUINO for the effective function of the braking system. The prototype has been made and successfully tested.

Keywords: Ultrasonic Sensor, Bumper, Automatic Braking System, Bluetooth Control

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3 Spatial Analysis of Area Influence of Primary Health Centres in the Tribal Tehsil of Nashik District

Paper ID V8I3-1142 · Pages 13-16 · Medical

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Individuals, families, and communities initially come into contact with the national health system through primary health care, which brings health care as close as possible to where people live and work. Well-trained health practitioners must provide "scientifically sound and socially acceptable procedures made universally accessible."The major goal of this article is to calculate the influence area of primary health centers in the Nasik district of tribal tehsils. Jackson's (2009) approach has been used to calculate the Influence Area of Primary Health Centres. The development of a primary health center necessitates the presence of 30000 non-tribal residents and 20000 tribal residents. The number of Primary Health Centres necessary in the Nasik district of tribal tehsils have75, but only 43 have been created, and more than 32 are needed. The impact area of Primary Health Centres in tribal tehsils of Nashik district is 213.86 square kilometers. The effect of the area of Primary Health Centres in Nashik district is 18.24 villages, according to the population, the influence area of Primary Health Centres in tribal tahsils of Nashik district is 32528.33.

Keywords: PHC, SPHC, Influence Area, Tribal Tehsils, Equity

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4 Numerical solution to the one-dimensional heat equation by using a recursive form of cubic B-spline collocation method

Paper ID V8I3-1161 · Pages 17-20 · Numerical Analysis

Rajashekhar Reddy, Assistant Professor, Jawaharlal Nehru Technological University, Hyderabad, Telangana

In this paper, a recursive form of the quadratic B-spline Collocation method is proposed for calculating the numerical solution of one-dimensional heat equation. The recursive form of B-spline is used for the spatial coordinates whereas the forward difference scheme is applied for the time derivative. The performance of the method is tested at different time levels. The numerical result shows that the present method is a successful numerical technique to find solutions to time-dependent problems.

Keywords: One Dimensional Heat Equation, B-Spline, Collocation Method, Forward Difference Scheme

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5 Waste heat recovery in automobile radiators using Peltier modules

Paper ID V8I3-1138 · Pages 21-24 · Mechanical Engineering

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Efficiency enhancement is the major concern for every system and various techniques have been used for achieving more efficiency and less fuel consumption. In IC engines chemical energy is converted into mechanical energy but less efficiently because most of the energy is dissipated as heat in the exhaust and coolant. Furthermore, the heat losses are 60-70% for internal combustion engines, it is important to recover that waste heat. There we have two solutions to this problem: 1) To make the IC engine very efficient so that it does not waste any energy and convert all the energy to useful work. 2) To utilize the waste heat energy for converting it into useful work. The first solution has some limitations in that not all the energy can be converted from one form to another without loss and the second solution can be achieved by converting heat energy directly into electrical energy with thermocouples/thermoelectric generators. In this project, the aim is to develop a system that can recover the waste heat lost in the engine to improve efficiency and reduce fuel consumption.

Keywords: Energy Conversion, Fuel Efficiency, Heat Recovery, Thermocouple, Thermoelectric Generators

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6 SOPA: A Parking Solution

Paper ID V8I3-1152 · Pages 25-30 · Engineering

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The vehicle density has increased at an alarming rate and continues to do so. This is especially apparent during the peak hours of the day. This has made it very hard for vehicle owners to find a place to park their automobiles. This study aims to develop a mobile application by employing state-of-the-art technologies to tackle this widespread problem. The application uses data supplied by the users to give spot seekers a preferred location where they can park their vehicles. It also encourages users to supply more data by introducing in-app currency. This can help to combat problems like fuel wastage and save time as well.

Keywords: Parking Solution, Mobile, Spots, Application

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7 The design and implementation of CMS based cloud space management system for the schools

Paper ID V8I3-1145 · Pages 31-35 · Web Technology

Syed Taimoor Ali, Research Scholar, Central South University, Changsha, China
Jun Long, Professor, Central South University, Changsha, China

technology has brought a massive change to human lifestyle in today’s world. The Traditional methods are being moved towards the modern era of technology by adopting novel approaches. In 2019 due to the pandemic of COVID-19, people were isolated, because of that, the trend of remote working was enhanced, and officials are being moved towards the digitalized world; according to that scenario, we decided to design and implement a cloud-based space management system for the schools, TSD (The Student Drive). The TSD facilitates school’s students and tutors with the web-based software to share information, send notifications, and customize resource sharing methods; the shared data includes multi-type files, folders, text, lectures, images, graphs, etc. In this study, the proposed system was successfully designed, implemented, and tested under the consideration of experts; as a result, expert reviews are added. The System services were evaluated by comparison with available alternate sources; and in the end, it was founded that the TSD is much beneficial to use in the modern era where everything is digitalized, and there is no such promising system for the school for sharing resources.

Keywords: E-Learning, System Adoption, Digital Learning, Web Engineering, Software Design & Implementation, Cloud Storage.

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8 Automation of WhatsApp using Python Selenium

Paper ID V8I3-1176 · Pages 36-38 · Usability Engneering

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Chatbots, or conversational interfaces as they are also known, present a new way for individuals to interact with computer systems. Traditionally, to get a question answered by a software program involved using a search engine, or filling out a form. A chatbot allows a user to simply ask questions in the same manner that they would address a human. The most well known chatbots currently are voice chatbots: Alexa and Siri. However, chatbots are currently being adopted at a high rate on computer chat platforms

Keywords: Whatapp, Selenium, Chatbot

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9 Review of COVID19 diagnosis using Artificial Intelligence

Paper ID V8I3-1187 · Pages 39-42 · Covid19 Diagnosis

Vaibhav Dandage, Student, Padmshri V.B. Kolte College of Engineering Malkapur, Maharashtra
Manjiri Karande, Project Guide, Padmshri V.B. Kolte College of Engineering Malkapur, Maharashtra

For the last two years, the entire world is facing multiple COVID 19 waves. The disease spreads due to Novel Corona Virus 2019 and that’s why the name of the disease is COVID19. The virus is highly infectious and spreads easily. The disease spread throughout the entire world and now we are facing the first pandemic of the 21st century. In this paper, we are suggesting a non-invasive method which can be used easily by anyone to check whether they are having COVID19 or not. We are using a trained AI model to identify the input coughing audio file of a subject to diagnose whether they have been affected by COVID or not. As the incubation period of the virus is nearly 2 weeks, we need to take it into consideration while performing the testing.

Keywords: Artificial Intelligence, COVID19, Corona Virus, AI Model, Machine Learning, MFCC

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10 The mensuration calculator

Paper ID V8I3-1183 · Pages 43-44 · Computer Science Engineering

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The focus of this project is web development and this Web project (Mensuration Calculator) is done with the help of Web Programming Languages such as HTML, CSS, and JavaScript. The purpose of The Mensuration

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Calculator (Web Project) is to raise awareness about Educational Technology. The main goal is to reduce the stress of a student who feels troubled about Mensuration math Prices. and the second thing we should reach out to most students read about Mensuration Calculation on our website. Our website is easy to use and can be missed by everyone. Our website has registration but does not any form of payment (fees)

Keywords: HTML, CSS, JavaScript, Bootstrap, PHP , Figures

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11 Petrol accuracy system using cloud computing

Paper ID V8I3-1159 · Pages 45-47 · Mechanical Engineering

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In this project, we fabricated an IoT chip to monitor the accuracy of fuel on both heavy and light vehicles. The system consists of parts like a liquid flow sensor, bug convertor, and node MCU 8266 This system can be used in industries to find the loss of fuel in heavy and light vehicles and it can also locate the exact location of that vehicles. We use node MCU IOT chip to monitor the fuel accuracy of the vehicles where we coded a program by using C language in Arduino and dump the code in the chip and that chip is connected. We use node MCU as a modern tool used in a different way, we create a web page that uses cloud computing technology to monitor the system. We learned about the fuel tank and fuel flow system by using this system we can reduce fuel theft in heavy vehicles as well as we can locate the exact location of the vehicles. We have designed a new tank cap to fix the system by which we can get an accurate fuel level. We have analysis about the fuel tank system from the mechanical workshop and node MCU through the internet. We use a bug convertor and node MCU as a modern tool. It is useful for all common people to protect their vehicles from theft. This project can be helpful for all lite and heavy vehicle owners.

Keywords: Petrol Accuracy, IoT, Sensor, Pressure

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12 Analysis of Hodgkin Huxley neuron model using LTspice and MATLAB

Paper ID V8I3-1180 · Pages 48-52 · Vlsi

Mihir Kumar Jha, Student, Delhi Technological University, New Delhi, Delhi
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Neuromorphic engineering popularly called neuromorphic computing is a study used to represent analog, digital, and software system-based artificial neurons that replicate the behavior of biological neurons in terms of perception and motor control. In this paper, first, we are going to study the mathematical model of neurons, understanding the Hodgkin Huxley equation to represent the biological neuron and based on this we have simulated the basic pulse-type hardware neuron model on LTSpice using Transistors, resistances, capacitances,

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and externally injected input stimulus current. We have also analyzed the Hodgkin Huxley neuron using MATLAB to understand and explore the basic features of a biological neuron-like its beating nature, action potential, gating variables, and conductance of ions in the HH equation.

Keywords: Neuromorphic Engineering, Biological Neuron, Hodgkin Huxley Equation, Pulse Type Hardware Neuron, Beating Nature, Action Potential, Gating Variables

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13 Attitudes of Teachers Teaching Mathematics at Primary Level towards Activity Based Approach

Paper ID V8I3-1192 · Pages 53-58 · Education

Tentu Sridevi, Research Scholar, M.R. College of Education, Viziangaram, Andhra Pradesh
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This article focuses on the Attitudes of Teachers Teaching Mathematics at Primary Level towards Activity Based Approach. This paper mainly concentrated on teachers who handling mathematics at primary level towards Providing Learning Activities, Promoting Learning by doing, Developing Individual, Group and whole class work, Recognizing Individual Differences, Using the Local Environment , Creating and Interesting Class room were examined. Data were collected through a survey. The instrument consists of 91 statements deemed appropriate to know the perceptions of teachers. These statements were grouped by six functional areas. The sample of 80 respondents was considered statistically adequate and reliable for all analytical purposes

Keywords: Teachers Attitudes, Teaching Mathematics, Primary Level, Activity Based Approach

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14 Student Dashboard

Paper ID V8I3-1194 · Pages 59-61 · Web Development

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Mainly purpose of this dashboard is that we can do multiple operations at a time.

Keywords: Notepad, Dictionary, Spotify, Typeer

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15 Satellite City – A Future Requirement

Paper ID V8I3-1203 · Pages 62-62 · Civil Engineering

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Satellite City is the solution for highly conjusted cities. Highly conjusted cities cannot maintain the healthy life-style. Satellite city can give the better life style than conjusted cities.

Keywords: Satellite City, Parent City, Population, Healthy Living

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16 Lithium-ion battery pack design for EVs

Paper ID V8I3-1186 · Pages 63-65 · Electrical Vehicle Battery

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Sunil K. Patil, Associate Professor, Government College of Engineering, Karad, Maharashtra

For decades, the earth has been plagued by global warming. Although technology is rapidly evolving with the burning of fossil fuels to generate energy, resources are running in the opposite direction and greenhouse gases are being released into the surrounding atmosphere. Thus, the concept of renewable energy has gained the Simulink platform. With the rapid development of Lithium-Ion Battery Technology in the electric vehicle (EV) industry, the cell life of the battery is increasing dramatically. To convert ICE vehicles into electric vehicles it is important to build a battery pack for that vehicle. When building or upgrading a Battery pack we must consider many factors. tremendous their peace, environmental friendliness, and high efficiency. As the main source of energy for EVs, battery storage systems (BSSs) are important. Within this industry, Li-ion batteries are very popular in the EV industry. The purpose of this paper is to clarify the battery model for EVs and to upgrade to MATLAB.

Keywords: Lithium-Ion, Hybrid Vehicle, Battery Pack Design, Cooling System, Battery Management System (BMS).

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17 Robotics automation features and future trends in technology

Paper ID V8I3-1163 · Pages 66-70 · Computer Science

Ravindra Patel, Student, Campbellsville University, Campbellsville, United States

Robots can be programmed to function as servants, workers, factory workers, office clerks, and even doctors. This article shows how society will begin to incorporate automation technology to make production faster, better, and cheaper in the future. It is expected that the present technological revolution will see further incorporation of robots into society, with the emergence of companion robots in the second half of the twenty-first century, and in the process, will have a significant influence on social problems and social issues that may emerge. For instance, due to the impact of robots on society, in the long run, it is inevitable that robot-related disasters will occur in the future, resulting in a change in society and how robots are managed. This article also highlights the current state of research on social issues such as job loss, social stratification, ethics, and so on, to reveal the nature of robots in society.

Keywords: Technology, Robotics, Machines, Programming.

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18 Quality of water

Paper ID V8I3-1222 · Pages 71-74 · Civil Engineering

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Water is maybe the most valuable regular asset after the air. However, the outer layer of the earth is generally comprised of water, just a little piece of it is usable, which makes this asset exceptionally restricted. This valuable and restricted asset, consequently, should be utilized with reasonability. As water is expected for various purposes, its reasonableness should be checked previously use. Likewise, wellsprings of water should be checked routinely to decide if they are in strong well-being or not. The poor state of water bodies is not just the indicator of natural corruption, it is additionally a danger to the environment. In ventures, the inappropriate nature of water might cause risks and extreme monetary misfortune. Subsequently, the nature of water is vital from both ecological and financial perspectives. Hence, water quality examination is fundamental for involving it in any reason. Following quite a while of examination, water quality investigation is currently comprised of a few standard conventions. There are rules for inspecting, safeguarding, and examination of the examples. Here the standard chain of activity is examined momentarily so it very well might be valuable to the examiners and scientists. The current review is centered around the assurance of physio-substance boundaries, like temperature, pH, EC, hardness, chlorides, alkalinity, DO, BOD5, COD, phosphate, and sulfate of water tests from various examining focuses. Increment in contamination focus shows an expansion in the contamination load because of homegrown sewage and modern effluents and anthropogenic exercises and the release of squanders to the release into the stream in Erode region. In the current review, water tests were gathered from the entire city and were separated into four locales for efficient inspection and understanding. The outcomes uncovered that the normal pH esteem was examined as 7.86, Electrical Conductivity was 920 µS/cm-1, boundaries incorporate Total Solids 1580 mg/l, Total Dissolved Solids 1004 mg/l, complete suspended solids was 690 mg/l, absolute hardness was 340 mg/l, chloride was 380 mg/l, broke up oxygen was 5.59 mg/l, BOD5 was 38 mg/l, COD was 304 mg/l, phosphate was 6.0 mg/l and sulfate was 60 mg/l of the stream water test. In this way, the review uncovered how the Cauvery stream water is sullied by effluents from limited scope enterprises and unloading of wastages from business sectors and homegrown use wastages. So, water quality the board is direly expected to accomplish the water quality norms not entirely set in stone by WHO. The correlation coefficient showed an exceptionally critical positive what's more, negative relationship.

Keywords: Industrial Gushing, Total Broke Down Solids, Physio-Synthetic, Homegrown Waste

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19 Game theory-based task offloading in fog-based wireless networks

Paper ID V8I3-1213 · Pages 75-80 · Networking And Optimization

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Fog-assisted 5G Networks allow the users within the networks to execute their tasks and processes through cooperation among the fog nodes. As a result, the delay in task execution reduces in contrast to the task execution in independent scenarios, where the Base Station (BS) is directly involved. In the practical scenario, the ability to cooperate clearly depends on the willingness of fog nodes to cooperate. Hence the prime purpose of this study and project is to design an incentive-based bargaining approach based on Nash Bargaining Solution (NBS) which encourages a cooperative task execution by the fog nodes for the end-users in a fog-assisted 5G network. The proposed model encourages the fog nodes to cooperate among themselves by receiving incentives from the end-users benefitting from the cooperation. Considering the heterogeneous nature of fog nodes based on their storage capacity, energy efficiency, etc., we aim to emphasize a fair incentive mechanism that fairly distributes the incentives from users to the participating fog nodes and improves the QoS. The proposed incentive-based cooperative approach reduces the cost of end-users as well as balances the energy consumption of fog nodes. The proposed system model addresses and models the above approaches and mathematically formulate cost models for both fog nodes and the end-users in a fog-assisted 5G network.

Keywords: Wireless Networks, QoS, Fog Computing, Optimisation, FWN

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20 Seasonal Study of Surface Water in Uddanam Region

Paper ID V8I3-1191 · Pages 81-85 · Environmental Science

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Chronic kidney disease (CKD) is the most prevailing unknown etiology in the Uddanam region of Srikakulam district. Many studies suggested that water could be one of the factors for the CKD and hence the study was focused on the assessment of surface water for pre-monsoon and post-monsoon seasons for two consecutive years. The water samples have been collected from the selected 13 villages in Uddanam region which are at high risk. All the water samples showed acidic nature (pH < 6.5), greater hardness and high phosphate ions. The water samples were also analyzed for Fe, As, Cd, Pb and Hg. The water can only be suitable for drinking and cooking through proper water treatment methods.

Keywords: Surface water, Uddanam, Kidney disease, hardness

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21 An african basketry of heterogeneous variables ashanti-asomi-aweera

Paper ID V8I3-1235 · Pages 86-98 · African Studies

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In terms of a scientific systems approach to the knowledge of human origins, human organizations, human histories, human kingdoms, human languages, human populations, and above all human genes, unquestionable scientific evidence with human dignity flabbergasted the European strong world of slave-masters and colonialist-policy-rulers. This deduces that the early Europeans knew nothing scientific about mankind beforehand unleashing their one-up-man-ship over Africa and the Africans except that they were the

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white-skinned flocks and so, not the kith and kin of the Africans in black skin living in what they called the ‘Dark Continent’! Of course, in later times, the same masters and rulers committed to not repeating their colonialist racial geo-political injustices. The whites were domineering and weaponized to the hilt on their own mentality, for their own interests, and by their own logic opposing the geopolitically distant African blacks inhabiting the natural resources enriched frontiers. Those ‘twists and twitches’ in the timeline led to the black slavery and white slave trade with meddling Christian Adventist Missionaries, colonialists, religious conversions, Anglican Universities’ Missions, intersexual births, the associative some, the dissociative some and the nonatomic divisions within African natives in concomitance. And yet, an indelible African Awe Era (AWE) prevailed in the African Continent. How is it made possible by the Africans? No people or no language or no kingdom exists without some kind of moral, social, and political framework and when this is not written down, it may be strongest as the unwritten-down. A number of early European-written-down accounts in respect of the European-called ‘Black Africans’ boomeranged when the European scientific researchers discovered that the genetic roots of mankind exploded in Africa proclaiming African commonality superimposed. The first woman of all human beings is an African Mother indeed as confirmed by the knowledge resources Scientists. Of classical civilizations, ‘The African Grand Narrative’, in turn, exposes that all, in reality, is ‘Spirit’ or ‘Energy’ or ‘Power’ and that a particular process of knowing emerges from African genesis such as the meaning of being human, and concept of life and death. This Research Work Paper of my self-directed efforts which I call an advanced research saga precisely answers the just question above by way of African basketry at my level for the African Awe Era with heterogeneous variables used as the brought-in-borrowed tools, say, African kingdoms, African languages and African people such as for example, the handy threesome tool of the “Ashanti-Asomi-Aweera”, respectively.

Keywords: African, Ashanti, Asomi, Awe, Aweera, Basketry, Heterogeneous, Variables

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22 Psychological support of the employers and the impact on the worker output

Paper ID V8I3-1237 · Pages 99-104 · Business

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In recent times, there has been a greater cognizance of the importance of mental health and the organizations must also start recognizing the needs of employees for a better workplace environment so they can be at their maximum efficiency. There are various reasons why employee starts developing mental health problems in their workplace. The reasons could be personal like dealing with a difficult boss or organizational like a merger or takeovers. These mental health problems in turn reflect on their work performance in a negative manner. From impulsive and reckless actions in the workplace to lower efficiency while working on their projects, the employee's mental health can affect both their own performance and the entire dynamic of the organization. Employers should be considerate towards employees’ mental health not only for the purpose of increasing the overall productivity of the organization but also for humanitarian reasons. They can achieve a healthier workplace environment through employee assistance programs, mental health first aid kits, and flexible working conditions. COVID-19 has been one of the major reasons for the deteriorating mental health of the employees and the organizations have slowly started adapting a way to restructure themselves in order to

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cater to the needs of the employees. This paper sources its information from secondary sources and attempts to simplify the concept of employee wellbeing and how it correlates to their work efficiency. The paper starts by explaining under what circumstances the worker experiences mental health problems in the workplace and how that affects their performance. It also discusses why employers should be considerate towards their employees' mental health and how employers and organizations can influence a healthier workplace environment with special reference to current COVID-19 situations.

Keywords: Psychological Support, Employee Mental Health, Workplace Environment, Organizational Behaviour, Employee Wellbeing, Employer Support.

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23 Fabrication of automatic and penumatic side stand for two wheeler

Paper ID V8I3-1188 · Pages 105-108 · Mechanical Engineering

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The side stand is used for supporting a parked motorcycle. If the rider may forget to retract the side stands before riding, then the undistracted stand hitting the ground and affected the riders control during the turn. Now a day's sensor are used for ensure that the stand is in released condition. The motorcycle side stand consists of a metallic rod and helical spring which is offset from the centre. Some side stand retract automatically when the motorcycle is lifted up the support some other are fit with electrical interlocks, warning devices or special retracting mechanism. In this paper there is possibility to reduce the evident which is takes place by the side stand. Side stand in two wheelers function the entire weight of the vehicle when it is parked. They are perfect on quick stop when one need to leave the vehicle for short while. They are provided with the spring that pulls it back into position to ensure extra safety. The presented mechanism consists of D.C. motor powered by motorcycles battery. Connected to the worm and worm gear mechanism for reduction of speed of motor and multiply the torque. The motor is actuated by the Rotation sensor which is mounted on the front of the wheel.

Keywords: Automatic and penumatic

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24 COVID19 diagnosis using forced coughing and Artificial Intelligence

Paper ID V8I3-1259 · Pages 113-118 · Artificial Intelligence

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Everyone knows COVID19. No part of the world is untouched by this disease today. The virus spread like wildfire throughout the entire world within a year. The main causes of the spread of the virus we can say were incubation period of 11.5 days and it can spread through sneezing, touch, and air. Along with that, the limitations of the testing time period added more scope for the virus to spread. In this paper, we have proposed

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a method based on artificial intelligence machine learning, which can be used by anyone to check whether a person has been infected by the COVID disease. The person just needs to provide an audio recording of the forced coughing. Within a few seconds, the person will get the result. This method has a great potential of saving time, money, and lives. Similar AI models have been proposed for different diseases like pneumonia and Alzheimer's.

Keywords: Artificial Intelligence, COVID19, Corona Virus, AI Model, Machine Learning, MFCC

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25 Stock price prediction

Paper ID V8I3-1267 · Pages 119-122 · Computer Science

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With the advent of technological marvels such as digitalization around the world, stock market predictions have entered a more technologically advanced era, reviving the old trading model. With the steady growth of market capitalization, stock trading has become an investment hub for many financial investors. Many analysts and researchers have developed tools and techniques that predict stock price movements and assist investors in making sound decisions. Advanced trading models enable researchers to predict the market using non-traditional text data from social media platforms. The use of advanced machine learning methods such as textual data analysis and compilation methods has greatly increased the accuracy of prediction. Meanwhile, stock market analysis and forecasting continue to be one of the most challenging research areas due to volatile, volatile, and volatile data. This study describes the design of machine-based learning strategies for predicting the stock market based on the use of a standard framework. In addition, a comprehensive comparative analysis was performed to obtain an indicator of significance. This research can be useful to emerge researchers to understand the basics and developments of this emerging environment, thus continuing further research in promising ways.

Keywords: Machine Learning, Stock Market Prediction, Linear Regression, LSTM

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26 Analysis and Design of RCC T-Beam Bridge Superstructure by using Different Codes and Load Combinations for Performance Assessment

Paper ID V8I3-1284 · Pages 123-132 · Civil Engineering

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Abstract: This study summarized the comparative design and analysis of the RCC T-Beam Bridge superstructure for Different Codes i.e., Indian Road Congress (IRC) codes and American Association of State Highway Transportation Officials (AASHTO) Specification Load Combinations for varying span lengths. Several codes are used to design the bridges. IRC 21-2000 was used for designing bridges by working stress method (WSM), also

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IRC: 112-2011 introduced by Indian Road Congress for RCC and Pre- Stressed bridges by limit state method (LSM). Both the codes have different guidelines and procedures for the design of bridges. This study based on IRC 112-2011 (LSM) and IRC: 6- 2017 is used for load considerations. This analysis depends on the analytical modeling by Finite Element Method (FEM) in STAAD-Pro software and compares the structural parameter Bending moment, Shear Force, Deflection, and Area of Reinforcement for different girder span lengths 16M, 20M, 24M as per the IRC and AASHTO code. Class A & Class 70R consider from IRC 6-2017 and HS93 is the vehicular loading considered from AASHTO. Form the analysis understanding suitability design technique and the behavior of two-lane carriageway width of T- Beam bridge superstructure under different loading conditions and by using different code and comparing the result, conclusions will be made that up to what extent similarities between both standards.

Keywords: IRC: 21-2000, IRC: 112-2011, AASHTO (LRFD), STAAD-Pro

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27 Planning, estimation and designing of G+1 House Plan

Paper ID V8I3-1265 · Pages 133-134 · Civil Engineering

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Our project focuses on planning designing of estimating of G+ 1 house plan. In this exclusive civil project, the bone will get some vital information on how to develop the perfect house plan for any G+1 house. The main objective of our project is to know the various design aspects like planning and estimate We have planned to design a house consisting of two floors (G+1). The planning is done as per the requirements Project begins with starts the start of the Layout of the house or structure followed by the Design and Analysis of the structure which is succeeded by cost estimation and planning for the said project . This project involves the layout, design, analysis, planning, and cost estimation of a G+1 house The layout of the proposed G+1 house is based on a plot of size15.40m x 11.75m. The shape of the house is rectangular in plan. The house consists of the ground floor and first floor. The staircase is provided with enough safe. National Building Code (NBC). All the drafting was done using AutoCAD. Also, these drawings made on AutoCAD also served as a base for the transfer of the structure for analysis and design. The cost estimate for the project has been calculated using Centre Line Method.

Keywords: Planning, Estimate, Design, Analysis

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28 A comparative analysis of Machine Learning Algorithms on malicious URL prediction

Paper ID V8I3-1275 · Pages 135-139 · Machine Learning

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Phishing is a type of deception in which a person or entity poses as a legitimate user. Phishing is a technique for fooling consumers that have grown more prevalent in cyberspace. The majority of phishing texts are cryptic. Many strategies and plan has now been intended to deal with the phishing problem in the literature. There is currently no solid remedy in place to prevent such assaults. This article proposes a To detect phishing assaults, a human has to learn forecasting engine is used taking this into account. Logical regression beats the other methods in both precision and failure rate, according to the experimental investigation. With logistic regression, you can predict URLs with accuracy.

Keywords: Machine learning, Threats, Phishing, Attacks, Decision Trees, Logistic Regression

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29 Cloud storage scheme based on computational intelligence in fog computing

Paper ID V8I3-1260 · Pages 153-157 · Cloud Computing

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Traditional privacy protection schemes are usually based on cipher technology, but these kinds of methods cannot effectively resist attacks from the inside of a cloud server. In order to achieve the goal problem, the motive of a three-layer storage framework supported fog computing. The future framework can both take full advantage of cloud storage and protect the privacy of knowledge. The hash-Solomon code algorithm is meant to cleave data into different parts. Then, this can add a small part of data in the local machine and fog server in order to protect privacy. With the explosive growth of disorderly data, cloud storage technology gets more attention and better development. However, in Education, Financial, and Healthcare storage schema, users' data is totally stored in cloud servers.

Keywords: Cloud Storage, Computational Intelligence, Fog Computing, Three-Layer Privacy

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30 The Concept of Ethics in Buddha Philosophy as Heterodox

Paper ID V8I3-1269 · Pages 158-160 · Arts

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The universal Noble Eightfold Path is an ethical principle in Buddha's philosophy. Nirvana is a state of mind or

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being in which one simultaneously realizes one's true identity, which is infinite and eternal, the illusory nature of the world, perfect bliss, and equanimity. There is no separate existence of "God" who is the arbiter of ethical action and soul (flow of the mental states) and also a stream of changeable consciousness in mainstream Buddhism. Rather, it is a common psycho-spiritual law that certain behaviors promote nirvana and abate suffering while others impede nirvana and bring about suffering. It is in these terms that an act or sequence of acts is usually deemed moral or immoral i.e. ethical or unethical. From an enlightened mind ethical behavior, both leads to and runs. As ethics Lord Buddha advised his disciples to abstain from (a) harming living beings, (b) taking things not freely given, (c) sexual misconduct, (d) false speech, and (e) intoxicating drinks and drugs causing heedlessness (knierim). These five virtues are the most vital and significant while there are up to ten precepts for lay practitioners and sometimes hundreds for ordained monks. These Noble Eightfold paths generally fall into three types. The first two tend toward nurturing knowledge (jnana), the middle three toward ethical conduct, and the latter three toward psychological (manosik) development. Among the Noble Eightfold Path of Right, Speech is abstinence from lying, deception, slander, and idle chatter. In a positive way, Buddha promotes speaking only when necessary, and with honesty, mindfulness, and loving-kindness. Right action generally entails the first three points of the five precepts listed above. The emphasis is to behave so as not to harm any sentient being physically, emotionally, or spiritually. Right livelihood follows from right action in that one ought to make their living in a peaceful way. Buddha listed four occupations that ought to be avoided for their promotion or consonance of harmful behavior (a) arms trading (2) dealing in living beings (3) meat products such as butchery, and (4) dealing in intoxicants and poisons.

Keywords: Ethics, Noble Eightfold, Nirvana, Precept, Right

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31 Retailer's perception towards Edible oil in and around Coimbatore

Paper ID V8I3-1263 · Pages 161-166 · Marketing Management

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This research was made to analyze the factors that are needed to be strengthened for the product's sales growth, it helped to determine the retailer perception towards edible oil brands, and also it helps to specify the reason for the specify Edible product which is not sold in the shop. These are the objective of this research. The research area was conducted in Coimbatore particularly in developing areas in Coimbatore like Eachanari, Malumichampatti, Othakalmandapam, and Kinathukadavu. The sample collected for this research is 181. The research design of the project is descriptive in nature. By using a structured questionnaire, the primary data was collected. Secondary data is collected from various journals, books, literatures, websites, and magazines. Convenient sampling is the sampling method used for the study. Chi-square test, Regression analysis,r correlation, and Cronbach Alpha test are the tools used for analyzing the data which are collected in the survey. From this study, it determines that the Majority of the retailers prefer that lowering the price can influence the new customer. In various retail outlets, customers are not specifying the brand while they are buying the product is the main reason for the reduction in sales. Because the majority of the retailers are not having

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awareness of Sim Sim oil which contributes to the reduction in sales due to not having awareness.

Keywords: Sales Objection, Retailer Perception, Pricing Factor, Promotion

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32 Prognosticate Diabetic Mellitus in Women by using Performance Evaluation and Classification Algorithms

Paper ID V8I3-1251 · Pages 167-170 · Computer Science

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Diabetes is a persistent disorder that takes place while the pancreas does now no longer produces sufficient insulin or while the frame can't use the insulin it produces Diabetes is known as one of the deadliest and most chronic diseases that cause blood sugar levels to rise. Many headaches arise if diabetes stays untreated and unidentified. Early prediction of diabetes can save a life. In our undertaking, prediction of diabetes for women between the ages of 30 and 80 through the use of classification algorithms. We used various Machine Learning classification algorithms like Logistic Regression, Decision Tree, and Random Forest on various attributes like Glucose, Blood Pressure, Skin thickness, Insulin, BMI, Diabetes pedigree function, Age, Pregnancies, and discover goal variable i.e., outcome. Finally, different classification algorithms along with their comparison of performances with the use of Confusion Matrix, Accuracy, F-Measure, and Recall.

Keywords: Logistic Regression, Decision Tree, Random Forest

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33 Traffic Sign Classification using Federated Deep Learning model

Paper ID V8I3-1211 · Pages 171-173 · Deep Learning

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For several years, much research has focused on the importance of traffic sign recognition systems, which have played a very important role in road safety. Researchers have exploited the techniques of machine learning, deep learning, and image processing to carry out their research successfully. The new and recent research on road sign classification and recognition systems is the result of the use of federated deep learning-based architectures such as the convolutional neural network (CNN) architectures. In this research work, the goal was to achieve a CNN model that is lightweight and easily implemented for an embedded application and with excellent classification accuracy. We choose to work with an improved network ResNet34 model for the

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classification of road signs. We trained our model network on the German Traffic Sign Recognition Benchmark (GTSRB) database and also on the Belgian Traffic Sign Data Set (BTSD), and it gave good results compared to other models tested by us and others tested by different researchers. The results we found are efficient, which emphasizes the effectiveness of our method

Keywords: Convolution Neural Network (CNN), Federated Deep Learning, German Traffic Sign Recognition Benchmark (GTSRB), Belgian Traffic Sign Data Set (BTSD)

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34 IP traffic classification of 4G network using Machine Learning techniques

Paper ID V8I3-1178 · Pages 174-177 · Cse

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In today's world, the number of online services and users is growing rapidly. This leads to a huge increase in internet traffic. Therefore, the task of separating IP traffic is approx. it is important for Internet service providers or ISPs, as well as a variety of government and the private sector for better network management and security. IP traffic separation includes identifying user activity using network traffic flowing into the system. This will also help to improve the network performance. The use of traditional IP traffic Classification methods based on the evaluation of packet capacity and hole numbers dropped significantly because there are so many online apps today that use naturally incorrect port numbers than well-known port numbers. Also, there are several encryption strategies today as a result of when testing the package payload is blocked. Currently, various machine reading techniques are commonly used to differentiate IP traffic. However, not much research has been done on IP fragmentation 4G network traffic. During this study, we did a new database by downloading real-time Internet traffic packets 4G network data using a tool called Wireshark. After that, we released the considered features of the packaged packages using the python script. Then we used five typewriters models, namely, Decision Tree, Vector Support Equipment, K Very Near Neighbors, Random Forest, and Naive Bayes IP splitting traffic. It was noted that Random Forest offered the best almost 87% accuracy

Keywords: IP Traffic Classification, Port Number, Deep Packet Inspection, Packet Capturing, Feature Extraction, Machine Learning

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35 Cursor Movement on Object Motion

Paper ID V8I3-1162 · Pages 178-182 · Computer Science

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This paper proposes sanewapproachforcontrolling mouse movement using a real-time camera. Most of the existing approaches involve changing mouse parts such as adding more buttons or changing the position of the tracking ball. Instead, it proposes to change the hardware design. The method uses a camera and computer vision technology, such as image segmentation and gesture recognition, to control mouse tasks (left-click and right-click, selection, scroll, and drag). Hand gestures are acquired using a Web camera based on color detection. In this research work, three colourtapes are used on fingers. The tapes will be used for clicking events on the mouse.ThroughaWebcamera, the real-time video is captured. Image processing is performed in each frame of that video to detect the color and mouse tasks are performed.

Keywords: Hand Gesture, Colour Detection, Human-Computer Interaction (HCI), HSV(Hue, Saturation, Value), Colour Model, Web Camera, RYD (Red, Yellow, Blue).

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36 Explore the factors affecting students' success in the first- year of college

Paper ID V8I3-1279 · Pages 183-188 · Education

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The United Arab Emirates invests great resources in the education of their youth to ensure they can continue and improve the legacy of the nation's founding fathers. As such, the government pumps in billions of dirhams annually to build an innovative, learned, and globally competitive society (MOE Website, 2021). However, at a crucial transition point, something is missing. Studies found that in some parts of the country up to 45% of high-school seniors, and young Emirati nationals are not interested in pursuing higher education (Bayoumi et al., 2016). This and probably other elements contribute to a disturbingly common phenomenon of Emirati students struggling to succeed in their first year of college. In light of this problem, this exploratory research seeks to analyze the factors that affect freshmen year success among Emirati students in particular. A qualitative method is suggested to identify the main challenging factors that hinder the success of the demographic studied and address those challenges to maximize success.

Keywords: Student Perceptions, College Readiness, High School

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37 Part Presence Detection and Counting using Advanced Image Processing

Paper ID V8I3-1287 · Pages 189-195 · Image Processing For Industries

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Part presence detection, part counting, and part inspection are major steps involved during a quality inspection in various stages of production in any production line. Quality inspection in most industries is done by quality inspectors or operators depending on the stage of production. Visual inspections by humans can cause variations in accuracy and results due to differences among workers. Part presence can be detected by using electronic/electrical sensors. But in cases where there is a large number of components/parts, the number of sensors to be used also increases. This leads to the development of complex systems. As the need for Factory automation has increased in recent times, there is a need to increase the rate of production. Replacing manual intervention with an automated system is an ideal solution. This can be successfully achieved by introducing machine vision and image processing technologies in the automated process. Since machine vision offers high image transmission and high image processing it is easier to achieve reliable and accurate results. Systems that provide these solutions are already available in the market. But these systems are highly expensive and only target large-scale customers that can afford such solutions. This arises a need for solutions that are cost-effective and reliable to target customers with simpler image processing requirements. The main objective of this project is to develop and provide simple low-cost machine vision solutions to customers.

Keywords: Image Processing, Visual Studio, Open CV, Part Presence, Part Inspection, Part Counting, Multi-Scale Pattern Matching, Factory Automation, Machine Vision.

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38 Women workers in construction sector of Kerala –An insight into their economic condition

Paper ID V8I3-1294 · Pages 196-205 · Economics

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The economic development of a country depends on the growth of Industry and technological development.The transition from an agriculture-oriented economy to an industry-based seems to be a major landmark.Building construction is a concomitant factor of industrial development. Construction activities create largeremployment opportunities for a considerable number of workers. The construction workers are mainly workingin informal or unorganized sectors. Basic problems faced in this field include disparity in wages, health issues,discrimination, economic problems, etc. The main objective of the study is to analyze the economic and socialconditions of women working in the construction sector. The study reveals the weaker economic conditions ofwomen construction workers. Lack of fixed income and varying working hours continues to haunt them. Theirincome is found insufficient for their subsistence. The study also revealed that out of the sampled womenconstruction workers most of them depend on loans for meeting their needs of existence. They are not gettingwork on all days of the month and hence occupational safety is found to be lacking.

Keywords: Wages, Economic Problems

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39 Implementation of artificial intelligence on the identification of smart attendance with real-time face recognition using CNN

Paper ID V8I3-1256 · Pages 206-209 · Data Science

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In the changing world, automatic face recognition (AFR) systems have achieved numerous advancements. Smart Attendance with Real-Time Face Recognition is a practical option for dealing with day-to-day tasks. Attendance system for students Attendance is based on the recognition of faces. This is a method of recognizing a student's face in preparation for a test. Face biometrics based on high-definition images are used to track attendance. keep an eye on video and other forms of information technology in front of my face, A computer system will be able to find and recognize people as part of the recognition project. In photos or videos, distinguish human faces quickly and precisely are being filmed on video by a surveillance system. Numerous Improved algorithms and methodologies have been developed for Face recognition performance, but the concept to be Deep Learning is used in this case. It aids conversion.

Keywords: Face Recognition, Deep Learning, Convolution Neural Network (CNN).

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40 Social costs and its accounting of prawn farming in west Bengal

Paper ID V8I3-1288 · Pages 210-215 · Environmental Science

Dr. Taposh Kumar Paul, Associate Professor, Gour Mohan Sachin Mandal Mahavidyalaya, Madhabpur, West Bengal

Prawns have good domestic and international markets. Prawns may be caught or cultured. Prawn culture is aquaculture. Prawn culture is carried on three districts in West Bengal such as North 24 Parganas, South 24

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Parganas, and Purba Midnapore. Prawn culture in these districts plays a vital role in providing gainful employment in rural areas earning foreign exchange and improving the economy. But prawn culture has some bad effects on the environment. The externalities of prawn culture are reduction of cultivation work, threatening food security, ecological imbalance, diminishing fertility of the land, environmental degradation, salination of drinking water, ill health, skin diseases, social pollution, etc. These costs destroy the socio-economic balance of the coastal area. So these costs need to be accounted for in environmental Accounting. Primary data are used for this exploratory research. Some good management practices should be followed to make sustainable prawn farming reducing externalities.

Keywords: Shellfishes, Prawn Culture, Social Costs, Environmental Accounting, Sustainable Prawn Farming

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41 The new normal: Digital transformation of the business world and digitalization

Paper ID V8I3-1292 · Pages 216-221 · Businesses In Covid-19

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The COVID-19 pandemic currently plaguing the world has engendered many disruptions around us, with extremely dramatic effects on not only business activities and people but also on the global economy and its future. The victims of the unprecedented outspread of the pandemic have been primarily Micro and Small Enterprises, especially in developing countries. Not just that, many large enterprises have been forced to reevaluate their business models, resulting in variations in growth patterns in the business world. During this time too though, new avenues have opened, and there has been an evident rapid growth in the digitalization sector. Despite the large-scale digitalization across the world, businesses, especially SME’s have landed in a slump due to the lack of resources, disruption of the supply chain as well as lack of sustainability and ability to cope with the digitalization of businesses around them. The pandemic has also exposed real-world challenges faced in digitalization, while developing avenues of growth yet to be explored. This paper discusses significant changes and problems faced by the business world, how digitalization reshapes businesses and their working during the pandemic and what new avenues and problems the world may face due to the advent of COVID-19 and the simultaneous emergence of a new era led by digital transformation.

Keywords: Pandemic, Disruptions, MSMEs, Economy, Business Models, Digitalization, Sustainability, Digital Transformation

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42 E-Commerce System for Visually Challenged People

Paper ID V8I3-1309 · Pages 222-224 · Engineering

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A website design that allows visually impaired to access and shop without any assistance. For visual impaired people it is difficult to do online shopping. This system gives voice instruction to users and an input is requested from the user. The user is required to hover over the entire page using the curser to access different voice messages for various fields. We are developing system which helps blind people to choose clothing patterns and other accessories by using speech recognition. It translates spoken words into text speech recognition. The main aim of this project is to propose an online shopping application especially for blind people through which they can choose whatever they want by simply speaking a sentence and to provide more flexibility and compatibility.

Keywords: E-commerce, Visually Impaired, Speech Recognition

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43 Impact of marital status on labour composition

Paper ID V8I3-1308 · Pages 225-227 · Economics

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Paid work paves the way toward social and economic stability. All around the world, men and women engage in work as a labor force to earn a living. It is essential for an independent source of income, to be able to live a decent life. Equal opportunities and treatment in the labor forces of a market are essential to establishing a decent working environment. But the question of the hour is, is everyone provided with the same opportunities. There is evidence that there exists a gender divide in the workforce systems all around the world, especially when it comes to the equitable status of women in the labor force aspect. This paper aims at investigating the impact of gender and marital status on labor composition and review the conditions of female labor force composition in India.

Keywords: Social And Economic Stability, Labour Forces, Gender Divide, Marital Status, Labour Composition

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44 Problems of the Anganwadi workers

Paper ID V8I3-1305 · Pages 228-236 · Health And Welfare

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Recognizing that the children are the assets of the country and future manpower, the Government of India has

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launched a massive integrated child development program for the promotion of the health of the children and mother. The program was implemented on a project basis and the Anganwadi center is the key at the grass-root level to supplement nutrition, immunization, reduce infant mortality, health-checkup and referral health, nutrition education, pre-school education, etc, The center is manned by an Anganwadi worker. The qualification prescribed is 10 years of schooling. To perform the above task they were exposed to pre and In-service training programs. The functionary has to interact and expose to various sections of people at various levels. The effectiveness in discharging their functions largely lies in identifying the bottlenecks and overcoming them. The training that was given to them should expose them to the anticipated problems in discharging their duties and functions. The present study is conducted in this direction to identify the problems faced by the Anganwadi workers as felt by themselves and from supervisors' point of view. The knowledge of the anticipated problems will form a base for formulating the training curriculum of the functionaries.

Keywords: Integrated Child Development Program, Anganwadi centers, Anganwadi workers, Training of the Anganwadi functionaries

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45 A Survey Paper on Health Monitoring Application

Paper ID V8I3-1317 · Pages 237-244 · A Survey Paper On Health Monitoring Application

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The challenge of maintaining a proper diet can be facilitated by the use of mobile phones. Mobile phones provide a fair infrastructure, which can be used to provide cost-effective high-quality aids to behavior monitoring and modification. The nature of mobile phones allows the user for customization and personalization, retrieval of nutrition information on-demand, as well as the ability to truly monitor the user's consumption trends. This android application is a one-stop solution for all health-related issues and questions. It has various functions like diet tracking, nutritional information about foods, a BMI calculator, and information about some basic medicines.

Keywords: Health And Fitness Apps, Bmi, Diet Tracking, Reminders, Etc

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46 Comparative Study of Conventional Frame and diagonally intersecting metal with Geometric Irregularities

Paper ID V8I3-1316 · Pages 245-253 · Civil Engineering

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High-rise buildings are more vulnerable

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tocollapseduetohighwindandearthquakepressure.Insuchabuildingriskoffailurecanbeminimizedbyadoptinglateralloadresistin frame and chevron braced frame with conventional frame system. The seismic analysis is done on these three frames. Thestructures are analyzed by linear static method. The building is considered to be irregular in plan. For irregular plan, C-shape plan,T-shape plan considered. The results are obtained after analysis are compared by various parameters like storey drift, absolutedisplacement, base shear, moment and axial forces. The First Comparison is between diagridsystem, chevron braced system andconventional frame system for C-Type and T-Plan separately and after that second overall comparison is between C-Plan and T-plan.The analysis is done on by using STAAD Software. The result of work showed that diagrid system resist lateral moreefficiently than chevron braced system and conventional frame system as it yields the least value for absolute displacement, storeydrift,topstoreyshear andbaseshear.

Keywords: Diagrid Frame System, Chevron Braced Frame System, Plan Irregularity

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47 Caption generator for random images using CNN & LSTM

Paper ID V8I3-1313 · Pages 254-257 · Machine Learning

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With the rapid growth of artificial intelligence in recent years, picture caption has steadily grabbed the attention of many artificial intelligence researchers and has become an important study topic. alluring and arduous task. Image captioning and spontaneously generating natural human language captions according to the content observed in the above-captured image is an important part of scene understanding, which requires the knowledge of computer vision and natural language processing. The operation of the image caption generator is far-reaching and eloquent, for instance, the realization of human-computer interactions. This paper encapsulates methods and focuses on the attention mechanism, which plays a vital role in computer vision and is recently used in image caption generation tasks.

Keywords: Artificial Intelligence, Image Captioning, Attention Mechanism, LSTM, CNN

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48 Annotations on files

Paper ID V8I3-1314 · Pages 258-260 · Web Development

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Real-time collaborative editing allows multiple users to edit a shared document at once. It has received a lot of attention from both industry and education and gained popularity due to the wide availability of free services

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like Google Docs. Although these shared editing programs were originally used in situations that included only a small set of users such as writing a research article, these days we are seeing a change in scale from fewer users to user communities. [2] Annotation can be an important function when trying to understand new information. The methodology can be used to create a 'summary' version of real information for later review and to add additional information to an existing document. The growth in web-based learning materials and information sources has created a requirement for systems that allow annotations to be attached to these new sources and, potentially, shared with other learners.[3]

Keywords: Annotations, Real-Time Collaboration, Operational Transformation, Consistency Models

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49 Accident detection system

Paper ID V8I3-1335 · Pages 261-264 · Machine Learning

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In this project, we detect the accident between two vehicles. For the purpose of detection, we use certain algorithms such as YOLO and CNN (Convolutional Neural Networks). This project is mainly built upon the combination of Object Detection and Tracking System (which is also abbreviated as ODTS) and RCNN algorithms which are mainly used for detecting purposes. In this project, a video is given as input where the coded algorithm completely separates the video into frames and analyzes the-each frame and detects the crash in the frames, and gives those frames as an output. In addition to accident detection, YOLO also detects the surroundings such as persons, cars, trucks, etc. The main point of using YOLO is to detect the surroundings and the crash (with the help of CNN).

Keywords: YOLO, RCNN, OpenCV, CNN, ODTS, WWD Analysis

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50 Power Loss and Voltage Profile in Distribution System by Neural Network

Paper ID V8I3-1337 · Pages 265-270 · Electrical

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The objective of power system operation is to meet the demand at all the locations within the power network as economically and reliably as possible. The traditional electric power generation systems utilize the conventional energy resources, such as fossil fuels, hydro, nuclear etc. for electricity generation. The operation of such traditional generation systems is based on centralized control utility generators, delivering power through an extensive transmission and distribution system, to meet the given demands of widely dispersed users. Nowadays, the justification for the large central-station plants is weakening due to depleting conventional resources, increased transmission and distribution costs, deregulation trends, heightened environmental concerns, and technological advancements. location and size of the DGs before and after radial network

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reconfiguration are determined using a multi-objective particle swarm optimization technique. In an active distribution network, an ideal network layout with DG coordination eliminates power losses, elevates voltage profiles, and enhances system stability, reliability, and efficiency.

Keywords: Power, Distribution, System, Neural Network

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51 Real Estate Solution driven by Blockchain Technology

Paper ID V8I3-1339 · Pages 281-287 · Computer Science

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The notion of Blockchain was first propositioned by Stuart Haber and Scott Stornetta in 1991 with an aim to develop a secure system where data and timestamps cannot be vandalizing. Within the established period of Blockchain, there have been a many momentous data breaches. As per the data breaches reports by MIT [1], cryptocurrency amount of almost $2 billion has been stolen since 2017. Forthwith, attacks on different data systems become frequent around the clock at all possible levels. These potential breaches indicate the necessity of a fortified architecture backed with distributed database and comprehensive risk management and allayed security systems. Our paper reconnoitres the types, algorithm, cyber-attacks with their core ideas, the ways to evade the threats by stating various security solutions, with the ongoing and future technologies to make blockchain, the safest system to protect the data as real-estate blockchain architecture in which an entirely new verified mechanism is introduced in order to reduce the fraudulent activities in the sector.

Keywords: Blockchain, Centralized, Consensus, Real-Estate Cyber-Security

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52 Monitoring Social Distancing

Paper ID V8I3-1322 · Pages 288-291 · Survey On Monitoring Social Distancing

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Social Distancing measures are important to reduce the COVID-19 spread. In order to break the chain of spread. A deeper understanding of the epidemic suggests that a person's negligence can cause widespread harm that would be difficult to negate. This project demonstrates a system that is useful in monitoring public places like ATMs, malls, and hospitals for any social distancing violations. It would be conveniently possible to monitor individuals whether they are maintaining the social distancing in the area under surveillance and also to alert the people as and when there are any violations from the predefined limits. We aim to develop a framework that tracks humans for monitoring the social distancing being practiced.

Keywords: Social Distancing, Spread, COVID-19, Monitoring, Maintenance, Deep Learning, Pandemics, Safety, Pedestrian

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Detection.

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53 Data Compression using a Generic Approach

Paper ID V8I3-1320 · Pages 292-293 · Data Storage

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The amount of data being generated in the great age of Big Data is enormous, which in turn has led to a large demand for storage infrastructures. With this growing demand, the storage infrastructures that depend on natural resources like silicon for hardware will become expensive. Hence there is a need to use techniques that minimize the size required by the data and efficiently store the data in these infrastructures. Data compression is a technique that reduces the size of data. This project's goal is to reduce the size of the original data without losing the quality of the data. We propose a generalized system with which data of any type or more commonly multimedia can be reduced in size without losing the quality of the data.

Keywords: Data Compression, Multimedia, Quality

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54 Teaching effectiveness and academic environment in the Government Polytechnics of Assam

Paper ID V8I3-1327 · Pages 294-300 · Educational Technology

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Teaching effectiveness and academic environment are the two important variables that determine the quality of student output from any institution. There are large-scale variations among the polytechnics in w.r.t. teaching effectiveness and academic environment. Again, there are multiple factors that affect teaching effectiveness. The factors are related to students, teachers, teaching-learning, and the academic environment of the institution. The academic environment includes the dimensions: institutional resources and facilities, involvement of students in teaching-learning, organization of scheduled activities, interaction with faculty and other staff etc. The author carried out a study to find out any differences in teaching effectiveness and academic environment in the polytechnics of Assam. The sample of the study was final year students studying in different Government polytechnics of Assam. In the study, a total of nine Government polytechnics were targeted and a total of nineteen branches were selected by taking 50% of the total branches of each institute subject to the inclusion of at-least two branches from each institute. Fifteen final semester students were randomly selected from each branch hence, a total of 285 (two hundred eighty-five) students were included in the study. Students Evaluation of Educational Quality (SEEQ) and Academic Environment Scale (AES) tools were used for collecting the data. The study reveals that there are significant differences among the various Govt. polytechnics of Assam with respect to various dimensions of teaching effectiveness and academic environment.

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It was also observed that most of the dimensions of teaching effectiveness and academic environment of Assam Textile Institute had a significantly higher rating than other polytechnics wherever significant differences were observed.

Keywords: Teaching Effectiveness, Academic Environment, Students Evaluation of Educational Quality (SEEQ), Academic Environment Scale (AES).

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55 The future of work in ASEAN: A matter of sustainability

Paper ID V8I3-1171 · Pages 301-308 · Labour

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ASEAN was initiated and formed on August 8th, 1967, a decade lesson learned from EEC which was formed by the 6 countries in 1958. However, in the case of the ASEAN community, it should not be foot-steeping to the EU. Since their landscape and demography are tremendously different: from no technology(mountainous/hill tribes) to high technology(Singaporean). The high percentage of the population classified as no technology to low technology is mainly in CLMV which joined the ASEAN in the late 1990s, while the medium to high technology consumers are in the ASEAN founding member states and Brunei Darussalam. These affect various kinds of jobs, skills, performances, productions and living styles/culture, and sustainability. Since some groups of people are among the top of the world(3rd to 4th wave) while the others are far left behind(1st wave). It is interesting the question of “What and how the sustainable work would be fit to the ASEAN members?” This issue is a black box or paradox of the “One vision, one identity, one community”. However, some studies revealed that the CLMV are focal points of the FDI’s industrial landmark due to new low-cost production sites, cheap labor, special economic zones, and benefit from AFTA to a huge market of US$2.6 trillion and over 622 million people. Our study revealed that a lot of FDIs, especially those advanced technology industries, do not employ the local cheap labor but substitute by installing robots or automatic machines or importing skilled labor from their own countries or from neighboring countries. In developed regions, computer skills and information technology skills are increasingly demanded in the labor market while the technical skills for natural products or handmade value-added development are highly demanded in rural areas. Otherwise, those agriculturists could not survive due to climate change.

Keywords: ASEAN, Future of Work, Sustainability

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56 Gun mechanism for border security

Paper ID V8I3-1342 · Pages 309-311 · Instrumentation Engineering

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The aim of this project is to develop and design a semi-automated sentry gun security system in order to detect, track and shoot the target for surveillance operations. This project is of a sentry gun that will be semi-automatic using an Arduino controller. It is a global issue that everyone wants to protect themselves and their beloved nation from various threats and dangers and keep their surroundings safe. This is a Bluetooth-based targeting gun system as the name suggests, it is based on a digitally controlled gun mechanism. This mechanism is built for good performance in the field with high sum accuracy, self-reloading gun, and ultimately used for soldier's assistance. The gun mechanism used here is called a sentry gun because it has a gun mounted on a wall or stand and an operator can operate it from a control room via remote. It uses an IP camera to scan the area under surveillance and motion in that area is detected by a PIR sensor. It can definitely perform better in areas where human presence is prohibited. It will bring positive outcomes and reduce the death toll, if installed at every border and law enforcement agency, to stop undesirable & illegal intrusion.

Keywords: Sentry Gun, Bluetooth, Arduino, Security, Camera

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57 Effect of In Vitro Protein Digestibility on Bioavailable Protein in Cereals, Pseudo Cereals, Pulses and Super Seeds in both Uncooked and Cooked form

Paper ID V8I3-1326 · Pages 312-319 · Food And Nutrition

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The nutritive value of protein in any food matrix depends on protein digestibility. Protein digestibility determines the bioavailability of the protein. Hence it is important that one should know protein digestibility to understand the nutritional value of the food matrix. The purpose was to study protein digestibility and understand the influence of protein digestibility on bioavailable protein. In cereals, protein digestibility is ranging from 59-to 90%, which is the highest and Sorghum is having lowest. 90% protein digestibility was obtained for pseudocereals and is comparable to wheat. Super seeds are rich in protein as well as in bioavailable protein as they exhibited superior digestibility of protein. In the case of pulses, all tested varieties have shown promising protein digestibility (91-84%) except for red kidney beans (75%). Also, a significant difference of $p>0.01$ was observed between protein content and bioavailable protein based on protein digestibility in both uncooked and cooked samples with few exceptions. These findings suggest that the protein digestibility of the food matrix is an important factor.

Keywords: In Vitro protein digestibility, Cereals, Millets, Pseudo Cereals, Pulses, Super seeds, Bioavailability

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58 WeRescue: An initiative to prevent another epidemic

Paper ID V8I3-1330 · Pages 320-323 · Computer Engineering

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Bird flu, aphtha, BSE, and other major epidemics have happened on a regular basis since the 1980s. Some researchers also believe that the COVID-19 outbreaks we've seen in the last two years originated from bats. The World Organization for Animal Health has more than sixty diseases that affect livestock and more than ten diseases that harm poultry and fowl on its list of specific diseases. Many people became infected with bird flu and other diseases as a result. However, no method for identifying and preventing epidemics exist. So, increasing awareness about a disease that is spreading in a certain location can be accomplished by alerting health officials about the circumstance and cases that are happening nearby. But, how can this be managed to accomplish? Hence, in this overview of challenges, we have proposed a system that will prevent and minimize suspected outbreaks with the help of web technology and data analysis.

Keywords: Authentication, Data Visualization, Outbreaks, Web Technology, etc.

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59 Prediction of traffic congestion using swarm-based long short term memory

Paper ID V8I3-1312 · Pages 324-329 · Deep Learning

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The vehicular Adhoc network is a new research area in the smart transport system that offers critical information to the network's cars. Road accidents affect about 150 thousand individuals, and VANET must improve safety. Traffic congestion forecasting is critical for reducing road accidents and enhancing traffic management for people. The dynamic behavior of the cars in the network, on the other hand, reduces the accuracy of deep learning models in predicting traffic congestion on roadways. This research introduces a new hybrid boosted long short-term memory ensemble and convolutional neural network (CNN) model to solve the congestion problem. to effectively handle the vehicle's dynamic behavior and estimate traffic congestion on routes The suggested BLSTME trains and improves the weak classifiers for the prediction of congestion, while the CNN collects characteristics from traffic photos. The suggested model is built with Tensor flow Python modules and evaluated in a real-world traffic situation with SUMO and OMNeT++. Extensive testing is done,

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and the model's performance is assessed using the performance criteria likely prediction accuracy, precision, and recall. As a consequence, the experimental result indicates 98 percent precision, 96 percent recall, and 94 percent accuracy. The findings show that the suggested model outperforms other current algorithms by 10% in terms of stability and performance when compared to deep learning methods.

Keywords: Predicting, Congestion, Experimental, Stability

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60 Online Exam Portal

Paper ID V8I3-1334 · Pages 330-333 · Computer Science Engineering

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Online Examination Portal (OEP) is an electronic assessment framework wherever assessments are given on the online either through the net or utilizing the computer framework. The elemental aim of the web communication device is to properly assess the students via a processed device that saves the specified time and provides speedy and correct outcomes. Advances in innovation in recent and ages have upheld the viability of an online assessment and have rested the cycle of an online assessment throughout the long run. However, several institutes, particularly in higher institutional companies, have standardized written examination contrivance ways in growing countries. The web assessment framework improves the approach toward leading tests and compellingly making ready the outcomes. This work talks about the electronic online assessment framework and a safer instrument to steer AN assessment. AN OEP could be a viable and nice declare a mass coaching assessment.

Keywords: Hypertext Preprocessor (PHP), Web Applications, Assessment Frameworks, Database, Web Server Component

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61 Waste Stratification using Deep Learning

Paper ID V8I3-1341 · Pages 334-336 · Deep Learning

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Waste management is one of the most serious problems that practically every country faces. Its goal is to offer sanitary, efficient, and costeffective solid waste storage, collection, transportation, treatment, and disposal without harming the environment, land, or water system. Waste sorting errors can result in incorrect disposal and the loss of opportunity to recycle or reuse items. Monitoring by hand is inefficient and costly. As a result, deep learning and machine learning play a critical role in categorizing and sorting garbage and rubbish, effectively distinguishing between different types of waste. Many tasks, such as garbage collection and waste classification/ segregation, are part of waste management. One of the most important operations is garbage classification, which is carried out in a variety of ways based on the nature of the material.

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Keywords: MobileNet Architecture, VGG16 model, Accuracy, Data collection, Convolutional Neural Network

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62 The effects of bionics on mankind and the challenges faced by the biomedical industry

Paper ID V8I3-1318 · Pages 337-338 · Biomedical Sciences

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The purpose of this paper is to discuss the advancements in the field of biomedical engineering and the effects of prosthetic implants and 3D skin on humans. This research aims to explore possibilities related to bioengineering and prosthetics. It also includes information on the potential challenges the industry might face and how it can advance further, to be more beneficial to humanity. The following is a detailed study of the uses of artificial organs, and 3D printers, and how we might come up with artificial skin that is able to comprehend sensations and mimic natural skin more accurately.

Keywords: Informative, Detailed, Innovative Ideas

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63 Visualization of the shape index profile of a 2D Astronomical image in 3D

Paper ID V8I3-1350 · Pages 339-342 · Image Processing

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Astronomical data provides assertions about the nature of life. This paper focuses on data and noise reduction of the provided Moon fit files, to analyze the mountains on five different terminator positions of the Moon. Autostakkert and ds9 tools are used respectively for noise reduction as well as pixel distance calculation. The main focus of this paper is to provide 3D visualization of the shape index profile of the input image using python script.

Keywords: Astronomical Data, Autostakkert, ds9, Shape Index, Noise Reduction, Terminator Positions, Python Script

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64 Segmentation of customers using Machine Learning algorithm

Paper ID V8I3-1351 · Pages 343-347 · Machine Learning

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The separation of the market into a discrete customer group of customers with comparable characteristics is

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known as customer segmentation. Client segmentation may be an effective tool for identifying unmet customer demands. The advent of a slew of new rivals and entrepreneurs has created a lot of friction among competing firms as they try to gain new customers while keeping the ones they already have. The k-means clustering technique is utilized in this research for this purpose. Segmentation of customers allows a business to personalize its interactions with consumers, much as we do in our daily lives. We discovered that each customer's behavior and demands had similar features when we segmented them. Then they're grouped together to meet needs using diverse ways. Doing segmentation manually can be exhausting. That is why we have implemented Machine Learning Algorithm to do for us.

Keywords: Machine Learning, K-Means Clustering, Customer Segmentation, Big Data, Prediction, Sklearn, Pandas, Python.

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65 Online food ordering application

Paper ID V8I3-1268 · Pages 348-351 · Online Food Ordering System

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The main object of this review paper is to describe and review on online food ordering system (app). The first aims to provide a review on online food ordering applications and the foodservice business sector. This study research method with data collected along with physical interviews with F&B business owners based on their knowledge, attitudes, and perspectives on online food delivery applications. The findings in this review paper are which applications are popular among each other. The main comparison between Food panda, Swiggy, Zomato, and Faasos. There are comparisons behalf on the internet, physical interviews, and past literature reviews. Currently Indian Online food market is$350billion. Food business in a broad area, and online food delivery apps are just part of it. From this review paper, we would understand the drivers of online food applications. Different services are given by application that makes consumers happy and satisfied with online food ordering application. In this review paper, we have an idea of which online food ordering application is most popular.

Keywords: Online Food Ordering Application, Online Service Provider, Zomato, Swiggy, Food Panda

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66 Management & risk evaluation involved in supply chain management

Paper ID V8I3-1348 · Pages 352-355 · Supply Chain Management Operations

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Supply chains have extended briskly over time, with the means to increase efficiency, lower costs and fulfill the demands in developing & developed Business Segments. The ever-growing complexity in a supply chain network blocks visibility and therefore decreases one's authority over the process. Complexity and Deterioration are coming up as significant difficulties in supply chain risk management. It has become more challenging to point out the risks with the rise of third-party service providers, therefore making the process more complex & less visible. This project intends to break down how supply chain risks could be successfully

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managed. This would be done, first by situating the exploration plan in Supply Chain Risk Management (SCRM). Then, strategic plans for effective administration & control of Supply Chain risk are recognized and analyzed.

Keywords: Supply Chain, Risk, Management

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67 Employee's Salary Prediction

Paper ID V8I3-1357 · Pages 356-359 · Computer Science

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Machine learning is a technology that is a software program to predict or detect more accurately developing the computer program that can use data and use it to learn itself. In today's life prediction is a very trendy technology that predicts very accurately just like a human, to solve most of the prediction and detection problems. In this paper, we are proposing employee salary prediction with some key attributes and a machine learning algorithm.

Keywords: Machine Learning, Supervised Learning, Linear Regression Algorithm

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68 Performance Evaluation of Hydrophobic Coatings applied on Outdoor Cultural Heritage Building Materials

Paper ID V8I3-1365 · Pages 360-369 · Conservation Of Heritage Building Materials And Art Objects

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Dr. Anubhuti Kosle, Associate Professor, Department of Chemistry, Shri Rawatpura Sarkar University, Raipur, Chhattisgarh.

Conservation of heritage building materials is an important issue and no doubt climatic condition seriously affects the monumental building materials. The surface protection of heritage building materials by water repellent treatment is an essential requirement to control the weathering action of water and other related factors. Recently, with the technological development, many new products have been introduced in the market with high claims of their performance as a preservative coats. The protection of cultural heritage buildings and monuments by surface coatings with polymers is a common practice due to their ability to form a protective invisible transparent layer on the surface of monuments and control the transport of different fluids from the surface to the monument's interior. Protective coatings are used to make the building material more resistant to deteriorating agents like water, micro vegetation growth, and pollutants. To improve hydrophobicity, now a day's many commercially available masonry water repellents are in practice.

Keywords: Conservation, Cultural Heritage, Preservative Coat, Hydrophobicity, Deteriorating Agents

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69 Human-Computer Interface

Paper ID V8I3-1363 · Pages 370-372 · Computer Science

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Human-Computer Interface is diverse in several fields. But the main focus is on the computer science area. Software developers are continuously developing new products that can be very helpful to people. Day by day new technologies are coming into the market, and most people are unaware of them. People use machines or computer technology in their daily life but they don’t even understand how that machine actually works, and what is the mathematical logic that is used in a programming language behind this. Understanding a machine-only programming language is not enough, human psychology and physiology are also much important to understand how a computer system works or responds. The main objective is to develop a user-centric system that can be used by commands and the system will do the work as per the user's need and understand how the system can be more useful and efficient and effective to make tasks easy for users.

Keywords: Human-Computer Interface, Interactive Device, Interface Analysis, HCI Design, Usability Engineering, Dialog, Participants

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70 Design and development of pattern manipulated blouse (easy grading) with functional features

Paper ID V8I3-1343 · Pages 373-377 · Fashion Technology

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Clothing is one of the basic needs of human society. Thus the fashion Industry becomes one of the most important industries prevailing in the world. People generally expect comfort, quality, and aesthetic properties in one's clothing so as to wear it. Thus, manufacturers manufacture garments keeping in mind all these factors. As we know, there is nothing in this world that is flawless. So garments may have flaws that are been rectified in the due course and then sold in the market. Similarly, common problems faced by women while wearing a blouse are identified. Literature surveys are done to know the basics and pre-requisite needed to solve this problem. Thus, the pattern is drafted for a blouse and then it is manipulated for easy grading properties needed so as to reduce the time consumption of a customized blouse. Then the functional features like issues of stain due to sweating, and tightness in the hip region are solved. The fabric needed for the blouse and the fabric needed for the functional features added are sourced accordingly and then the new product is been manufactured

Keywords: Blouse, Pattern Drafting, Pattern Making, Comfort Properties, Cool Max, Functional Features, Product Development

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71 Heart Diseases Analysis

Paper ID V8I3-1372 · Pages 378-381 · Student

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The main aim of this project will be on employing neural networks to analyze cardiac disease. Patients will be divided into variable levels of coronary artery disease based on the factors such as blood pressure and other attributes. As a result, getting acquainted yourself with the data processing techniques appropriate for numerical health data and the most widely used algorithms for classification tasks is an extremely valuable use of your time, and we will do just that. Another goal of this project is to use neural networks to predict cardiac disease. Blood pressure, high cholesterol, and heart rate are all factors to consider. The most difficult problem in the medical industry is studying and diagnosing heart problems.

Keywords: Classification, Decision Trees, Heart Disease, KNN, Logistic Regression, Machine Learning, Naïve Bayes, Random Forest, SVM

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72 Loan Prediction System

Paper ID V8I3-1369 · Pages 382-384 · Computer Science

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In the banking sector, people are applying for bank loans but the bank has limited assets which it has to grant to limited people only. Finding out to whom the loan can be granted which will be a safer option for the bank is a typical process. In today’s life, the banking industry still wants a more scrutinized predictive modeling framework. In this paper, we are proposing personal loan prediction with some key attributes and a machine learning algorithm.

Keywords: Machine Learning, Supervised Learning, Logistic Regression Algorithm

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73 Self-concept and Academic Performance in Mathematics of Senior High School Students

Paper ID V8I3-1307 · Pages 385-391 · Education

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The study investigated the relationship between Self-concept and Academic Performance in Mathematics of Senior High School Students. The respondents of this study are the 119 senior high school students of Sugod Senior High School, Sugod Bacon District Sorsogon City. Data were collected using a 30-item self-concept questionnaire checklist adopted from the study of Peteros (2012). Their academic performances were assessed using their average rating in General Mathematics for the 1st Semester, S.Y. 2020-2021. The collected data were treated using percentage, weighted mean, Chi-square, and t-test statistics, tested at a 0.05 level of

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significance. Students have varying levels of self-concept along learned, organized, and dynamic which are described as moderate. Most of the students got an overall level of performance that is described as satisfactory with moderate self-concepts. The self-concept of the students along learned, organized, and dynamic are significantly related to each other. It was suggested that teachers should develop their student's positive self-concept toward Mathematics and establish a pleasant teaching experience to enhance higher self-concept and better performance in mathematics.

Keywords: Self-Concept, Academic Performance, Senior High School Students, Mathematics

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74 Analysis of a Fuzzy Based Security Approach for SIoT based Large-Scale Smart Environment

Paper ID V8I3-1373 · Pages 392-396 · Fuzzy Logic

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Large-scale smart environments (LSEs) are distributed systems that covers wide geographical area characterized by a large number of possibly heterogeneous, interacting Internet of Things (IoT) devices. Their deployment aims to provide enhanced cyber-physical services to its users, IoT allows the physical objects in daily life connect to internet and by creating an environment where these object can identify and communicate with each other through different communication methods including Wi-Fi and sensor technologies. But with LSEs there is new concept included which is Social Internet of Things (SIoT), SIoT moderates the challenges of IoT like trust,entity discovery and management by developing" social-like" relationships between the objects that search only those nodes with mutual social relations then the complexity and the time duration of the search could be drastically reduced. Now due to less approaches to develop a efficient LSEs and issues like Security and Trustworthiness are still to conquer incase of SIoT. The system includes implementation of a security system that is user friendly and can be used commercially which comprises of LSE Sensor, LSE End User, LSE Edge, where LSE Gateway(Server) acting as mediator .This paper proposed to resolve the security issues and reduction of maliciousness resulting in the increasing trustworthiness. In Proposed system there is usage of Fuzzy Logic rather than Crisp Logic that provide the user with better results and overcome the related issues by improving parameters like latency, trustworthiness factor and no of nodes detection in the system ,by addition of Fuzzy Logic and Artificial Intelligence(AI) there is analysis of sound(alerts)coming from a particular sensor thereby increasing the reliability and removing congestion.

Keywords: IoT, Smart Environment, Security, Cloud Computing, Edge Computing, LSEs, SIoT, Fuzzy Logic, AI

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75 Aggregator application for tailoring with the integration of geo-fencing to analyze customers and fashion designers

Paper ID V8I3-1371 · Pages 397-401 · Aggregator Application Development

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The fashion aggregator is an android application that connects the tailor and the user from their remote location. This application plays a major role in reducing time consumption by letting the user, sketch their clothing design through the developed interface designed using Interactive genetic algorithm. Also, the geofencing feature with a proactive fast low resource algorithm helps the user to locate tailors within a radius of three kilometers. The tailor application displays the orders placed by the users. The tailors are listed based on ratings given by the previous user. Once the request is accepted by the dressmaker, the tailor updates the days required to complete the task. Simultaneously the cost calculations are made through the application and displayed to the user. The user can track their order through the application. This application is developed with the help of java programming language and Google maps API along with the android studio.

Keywords: Geofencing, Interactive Genetic Algorithm, Proactive Fast Low Resource Algorithm, Design Interface, Tailor Application

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76 Smart Trolley System using RFID Card and Arduino

Paper ID V8I3-1374 · Pages 402-403 · Instrumentation Engineering

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Nowadays interest in looking at malls is wide increasing among individuals. individuals get daily necessities from looking at malls. there's associated rising demand for straightforward and fast payment of bills in looking malls. Shoppers are annoyed at locating the things on the looking list when looking in looking malls and once no help is accessible in looking. To eliminate these issues, every product within the store is supplied with an RFID tag, to spot its kind. [one] every handcart is enforced with a Product Identification Device (inflammatory disease) that contains a microcontroller, an LCD, RFID reader, and a ZIGBEE transmitter. RFID scanner can read the getting product info on the looking cart and the knowledge concerning the merchandise is displayed on an LCD that is interfaced to the microcontroller, [2]. At the asking counter, the full bill is transferred to the laptop at the counter facet by the victimization ZIGBEE module. [three] during this project, the AT89S52 microcontroller is hooked up to associate an RFID reader and a barcode reader. because the user puts things within the self-propelled vehicle the reader on the self-propelled vehicle reads the tag and sends an indication to the controller. The controller then stores it within the memory and compares it with the product ID. [four]

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matches, it shows the name of the item on LCD and additionally the total quantity of things purchased. Once the looking is finished, the client can press a button on the self-propelled vehicle and send the full quantity spent on the merchandise to the asking counter section victimization ZIGBEE wireless communication module. [5]. during this project, there's an opportunity to revert back the merchandise in keeping with our want and budget. Once you're taking back a product from the self-propelled vehicle, a similar card is once more scan by the RFID reader, then the controller can deduct the same quantity associated with its product, from the information superhighway bill quantity. The billed quantity can be received by the ZIGBEE receiver.

Keywords: Arduino Uno, NRF24l01, LCD, Bluetooth Module, RFID Tag, RFID Reader

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77 Blood Donation Management System

Paper ID V8I3-1370 · Pages 404-406 · Computer Science Engineering

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This task portrays the web-based blood gift in the executive’s framework. the fundamental goal of this application is to computerize the total tasks of the blood donation center and this undertaking is chiefly for people able to give blood. blood donation centers need to keep hundreds or thousands of records and furthermore looking ought to be extremely quick, so that, they can find required subtleties in a flash utilizing this blood gift the board framework. the principal objective is to make a site that assists them with finishing their work quicker in a straightforward manner through on the web. likewise, our undertaking contains refreshed data.

Keywords: Blood, Donation, Management, Website, Database

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78 Objectual understanding of the moments of the Sun and Moon, The Symbological Approach

Paper ID V8I3-1375 · Pages 407-409 · Sociology

Yalla Venkata Chalapathi Rao, Independent Researcher, Independent Researcher

Objectual understanding of the moments of Sun and Moon in the context of Earth geographical changes influenced by the living and nonliving beings functions followed for better balancing position and the symbological approach. Research-based on the functions followed in ancient and modern times by understanding the moments of the Sun, Moon, and Earth for improving better balance and going through the right directions for obtaining good balancing positions. Explaining the symbological approach for symbolic communication based on the moments of the sun and the moon.

Keywords: Earth Geographical Moments, Behavioral Thinking, Symbological Approach, Moments of Sun And The Moon.

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79 Stock Price Prediction using Machine Learning

Paper ID V8I3-1376 · Pages 410-413 · Machine Learning

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The stock request is known for being unpredictable, dynamic, and nonlinear. Accurate stock price is extremely grueling because of multiple factors, similar as politics, global profitable conditions, unanticipated events, a company's fiscal performance, and so on. A stock request, equity request, or share request is the aggregation of buyers and merchandisers of stocks (also called shares), which represent power claims on businesses; these may include securities listed on a public stock exchange, as well as stock that's only traded intimately, similar as shares of private companies which are vended to investors through equity crowd funding platforms. Investment is generally made with an investment strategy in mind. A stock exchange is an exchange where stock mediators and dealers can buy and vend shares (equity stock), bonds, and other securities. Numerous large companies have their stocks listed on a stock exchange. This makes the stock more liquid and therefore more seductive to numerous investors. Trade in stock requests means the transfer of a stock or security from a dealer to a buyer. This requires the two immediate to agree on a price. Equities (stocks or shares) confer a power interest in a particular company. The purpose of a stock exchange is to grease the exchange of securities between buyers and merchandisers, therefore furnishing a business. The exchanges give real- time trading information on the listed securities, easing price discovery.

Keywords: Stock Exchange, Fiscal, Share, Exchange, Machine Learning, Index, Long Short-Term Memory (LSTM)

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80 Artificial Intelligence: Based Voice Assistance

Paper ID V8I3-1205 · Pages 414-420 · Artificial Intelligence

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Technological advancements in Artificial Intelligence (AI) are among the most recent to arise, carrying with it difficult and innovative features that are increasing at a rapid pace. While it appears that these technologies are becoming extensively accepted, some people do not want to use them in specific situations. In fact, its been studied extensively for many decades, and there are a plethora of generic models available in literature that explain how humans respond to new technological developments. The development of more special model for new technologies different properties, on the other hand, appears to be required. Using the information gathered from this research, we have constructed a concept model that includes a new scheme performance construction known as "interaction quality," which we believe is more accurate in depicting the deployment of artificial intelligence-based innovations. In addition to the double our model, we make use of such a voice-

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activated assistant to help us with our research.

Keywords: Artificial Intelligence, Voice Assistant, Trust, Adoption of Technology

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81 Fog removal in an image using fuzzy c-means and active contour segmentation

Paper ID V8I3-1382 · Pages 421-423 · Machine Learning

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Edge-maintaining smoothing is a picture processing approach that smooths away textures whilst keeping sharp edges. Image de-noising is the approach to lessen noises from corrupted pics. The goal of image denoising is to enhance the evaluation of the picture or notion of records in pics for human visitors or to offer higher output for different automatic picture processing techniques. The severe risk of air pollutants to human fitness makes air first-rate awareness of public attention, and effective, well-timed air first-rate tracking is vital to pollutants manipulation and human fitness. This paper proposes a deep getting to know and picture-primarily based totally version for air first-rate estimation. The noise introduces itself into a picture by changing a number of the pixels of the unique picture through new pixels having luminance values close to or identical to the minimal or most of the allowable dynamic luminance range. Preprocessing an image is a good way to adjust the picture for similar classes and segmentation

Keywords: Image processing, Adaptive filter, Gaussian filter, Canny edge filter, Active contour, and convolutional neural network.

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82 Image-based pothole detection using Machine Learning

Paper ID V8I3-1378 · Pages 424-427 · Machine Learning

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Potholes can generate damage to vehicles which may lead to many accidents. Thus, accurately detecting potholes is one of the important tasks for determining proper strategies in ITS service and road management systems. Many attempts are made for developing a technology that can automatically detect and recognize potholes. One great solution is to utilize image processing techniques, as various sources of images are available, e.g., surveillance cameras, in-vehicle cameras, or smartphones. These image-based solutions help to detect and classify road damages. An image related to road damage includes objects such as potholes, shadows, lanes, and cracks, so it is hard to detect a specific object. In this paper, we propose an image-based pothole classification model. The proposed method converts RGB image data, including potholes and other objects, to grayscale to reduce computation time. It detects all objects using an object detection algorithm. We

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are using Gaussian and median filtering to reduce noises in the image. We use k-means clustering and the YOLO algorithm for segmentation. We are using CNN algorithm for image classification. It will show if the road has potholes or not.

Keywords: Image Processing, RGB Image, Grayscale Image, Gaussian Filtering, Median Filtering, k-means clustering, YOLO Algorithm, CNN Algorithm.

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83 Efficient cloud data storage and file management using AWS S3 bucket

Paper ID V8I3-1379 · Pages 428-433 · Cse

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In the world of IT, end-user data is considered to be the basis of everything. A huge amount of data is added every day to the system and a far greater amount of data is being modified every second. Everyone expects that storing of data should be on the go and that their data should be safe and secure. While keeping the data secure, the procurement of the same should be seamless and fast. To serve this purpose, one of the dominant and reliable, technologies of the 20th century has been provided by one of the many products of Amazon Web Services by the name of Simple Storage Service(S3) that can store and retrieve huge amounts of data from any form of application, be it web-based or mobile, at an incredible speed. The data stored in S3 uses a flat-file system that is easy to understand and implement. Amazon S3 (Simple Storage Service) provides object storage, that is built for storing and recovering any amount of information or data from anywhere over the internet. It provides this storage through a web services interface. It can also store different file formats up to 5 terabytes in size. The scope of this project is to establish easy upload/retrieval of files from AWS S3 storage using different compression techniques and perform file operations on it. This way, one will be able to check which compression technique works efficiently in terms of compressed data size and also if the original data or file is corrupted, compromised, or destroyed, a backup is available on the cloud to recover. The proposed methodology also targets a few of the limitations of the flat file system of AWS S3 and provides a solution in the form of directory structure which on implementation can result in more security and can tackle inconsistency even for huge databases.

Keywords: AWS S3 Bucket, Huffman Compression Algorithm, LZW Compression Algorithm, File Management

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84 The impact of digital marketing on customer acquisition cost

Paper ID V8I3-1384 · Pages 434-437 · Digital Marketing

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This paper evaluates the factors that have led to a rise in digital marketing and discusses its impact on various components of the sales funnel. It analyzes how the costs associated with it have dropped over the last few years. This phenomenon has been leveraged by several companies to reduce the cost of acquiring a new

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customer and accelerating business growth.

Keywords: Digital Marketing, Sales, Customer Acquisition Cost (CAC), Lifetime Value (LTV)

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85 Privacy-preserving location data publishing using anonymization method

Paper ID V8I3-1387 · Pages 438-441 · Information Technology

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Publishing datasets plays an essential role in open data research and promoting the transparency of government agencies. However, such data publication might reveal users' private information. One of the most sensitive sources of data is geo-life datasets. Unfortunately, merely removing unique identifiers cannot preserve the privacy of users. Adversaries may know parts of the trajectories or be able to link the published dataset to other sources for the purpose of user identification. Therefore, it is crucial to apply privacy-preserving techniques before the publication of geo-life datasets. In this project, the proposed method is the MLA an enhanced anonymity framework termed k-anonymity algorithms to preserve the privacy of users in the publication of geo life datasets. MLA consists of 2 interworking algorithms clustering and alignment. Alignment: By formulating the anonymity process as an optimization problem and finding an alternative representation of the system. The clustering is able to apply machine clustering algorithms for clustering trajectories. The general approach is to implement one of the k-anonymity techniques and evaluate the privacy of the users to be compromised.

Keywords: Geo-Life Dataset, Privacy-Preserving, K-Anonymity, Clustering Trajectories

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86 Goods and Service Tax (GST) in India- Customer perception towards GST

Paper ID V8I3-1389 · Pages 442-458 · Commerce

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The present research article is to assess the consumer perception of GST in India. Various identifiable variables were used concerning tax compliance and tax knowledge. In this paper, the types, rates, and tax systems are also discussed, according to gender, occupation, and knowledge. GST is very essential in categories charged at a lower rate. The present paper gives the perception of the people.

Keywords: GST, Perception, Consumer

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87 The Cost and Consumption Pattern of Energy in Bakeries in Bauchi Metropolis

Paper ID V8I3-1360 · Pages 459-465 · Geography

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The study assesses the cost and consumption pattern of energy by bakeries in the Bauchi metropolis with a view to providing information for sustainable management of the environment. The data were obtained through both primary and secondary sources. Questionnaires were designed to get the pattern of different types of energy used by bakeries. One hundred copies of the questionnaire were administered to the respondents of the bakeries identified. The totals of 40 bakeries were identified using the snowball sampling method in Bauchi state, the rate of overdependence on woodfuel by owners of bakeries is a great concern. The findings show that Woodfuel and electricity were the main sources of energy used. Thirty-eight (38) bakeries were using wood fuel while two (2) use electricity. This is due to the availability and affordability of woodfuel (N55 per bundle) than electricity (N29.8 per unit). It was found that the high cost is the main factor militating against the use of electricity for baking bread and hot-wet and cold-wet are the period with the high demand of energy for heating the ovens due to the dampness of the environment and also, are the season of the high cost of woodfuel because accessibility is difficult. It was recommended that government and stakeholders should subsidies other alternative sources of energy like solar energy in order to reduce over-dependency on woodfuel which affect the quality of the environment, also modern oven that has a chimney or other clean energy sources should be made available at a subsidized rate, these may reduce the over-dependency on forest resources as the only bank for woodfuel resources for the sustainability of the environment

Keywords: Cost Consumption, Bakeries Energy Electricity

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88 Assessment of Groundwater Quality In Naupada, Ijjavaram, and Mulapeta: Coastal Villages of Srikakulam District of Andhra Pradesh

Paper ID V8I3-1361 · Pages 466-470 · Ground Water Quality Assessment

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The various water quality parameters, viz pH, electrical conductivity, total dissolved solids, total hardness, chloride, calcium, magnesium, sodium, and potassium ions in bore well and well water of three coastal villages Naupuda, Ijjavaram and Mulapeta of Srikakulam district of Andhra Pradesh were analyzed by composite sampling methods. Different sampling stations were identified in each of these villages and water samples were collected and analyzed for the various parameters. The results were compared with the values stipulated by World Health and found that the overall quality of the three villages is poor and not recommended as potable.

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Keywords: Ground Water Quality, Srikakulam District, Statistical Approach.

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89 Advance door lock with face mask detection using Arduino motion detector by PIR sensor and YOLO-LITE

Paper ID V8I3-1393 · Pages 471-479 · Arduiono Uno

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This project is primarily for the security of any department, it may be the doors of ordinary houses, or it may be of any other type of department. But it is better for the standard doors of the house as some types of doors have many higher locks and are better for that purpose. But house locks are very simple and very basic to be open today, which is that burglary and theft are on the rise this way, so as a solution it can help us protect our home. During the violence of COVID-19, the mask played a key role in preventing the spread of this deadly disease. We know that this deadly disease is spread by air polluted by droplets and tiny particles of air that contain germs. Therefore, the mask played an important role as it suppressed the transmission. Used as a barrier. We are focused on preventing the rapid spread of COVID-19 in public places such as shopping malls, hospitals, and ATMs where people do not wear masks and spread or become infected. It is hard work when we use human power to monitor individuals in the community and high costs. Therefore, we provide a solution using YOLO-lite architecture to determine if the person standing in front of the door is wearing a face mask.

Keywords: Increasing Security for Standard House Doors, Pir Sensor, Yolo Lite, Face Mask Detection, and Arduino

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90 HR analytics employee attrition & performance using machine learning in python

Paper ID V8I3-1394 · Pages 480-483 · Data Science

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Organizations can use technologies to assist them to make better decisions in a range of methods: Artificial intelligence is one of the most reducing technologies that assist firms to develop corporate strategy, organizational elements, and human resource management. Human resources (HR) has gotten a lot of attention in recent years because worker quality and skills are a growth element and a real competitive advantage for the business. Artificial intelligence is now being used to assist employee-related decisions within

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HR management, after just being introduced to sales and marketing departments. The goal is to promote decisions that are based on objective data analysis instead of subjective criteria. The purpose of this research is to examine how objective factors influence employee attrition in order to decide the most important factors.

Keywords: HR Analytics, Attrition & Performance, Prediction Model, Machine Learning

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91 Effect of parenting styles on emotional intelligence in single children vs first borns vs second borns

Paper ID V8I3-1396 · Pages 484-493 · Child Psychology

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Adolescence is a transitional age when rapid physiological, emotional and psychological changes occur. All these developments need to be taken into consideration as it creates a strong foundation before entering adulthood. It can help individuals live a life with positive well-being resulting in self-actualization. This research is aimed to study the relationship between parenting styles, emotional intelligence and birth order. The population consisted of 178 parents and 313 adolescents. The results stated that parenting styles do have an impact on emotional intelligence. Moreover, birth order also affects the emotional capabilities of children even though they were raised by the same parents. The present study revealed that among all the adolescents who were raised authoritively, second borns possessed more emotional intelligence. Between single children, first borns and second borns who were raised by authoritarian parents, second borns again scored high E.I. scores. Lastly, among all the adolescents who were raised using permissive parenting style, firstborns had more emotional capabilities than the single children and second borns.

Keywords: Parenting Styles, Emotional Intelligence, First Borns, Second Borns, Single Children

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92 Development of lightweight and secure IoT device management framework

Paper ID V8I3-1395 · Pages 494-497 · Computer Science Engineering (cse)

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The area of the Internet of Things (IoT) is rapidly growing, raising severe security concerns for the entire network. Due to its high traffic volume and real-time operation, a security framework is essential. The paradigm of the Internet of Things (IoT) requires pervasive connectivity to billions of heterogeneous devices. Devices in the Internet of Things (IoT) are very limited in processing capacity, memory, and storage. Therefore, a lightweight security process is to be provided for IoT devices in other to create the required development. This paper introduces several developments in lightweight versions of various known security processes and analyzes each relevant process. With a machine-learning-based model process that provides a lightweight solution that works by selecting the best features leveraging well-known filter and wrapper methods for feature selection. The strategy can be evaluated over different datasets collected from varying network scenarios.

Keywords: Internet of Things, Development, Security, Lightweight, Device Management

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93 Sensitivity Analysis using k-anonymization

Paper ID V8I3-1399 · Pages 498-501 · Information Security

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It's necessary to keep sensitive data and private data safe. When financial information, healthcare information, and other sensitive consumer or user data are mishandled, they can be destructive. Due to a lack of access control over personal information, individuals may be susceptible to fraud and identity theft. This paper provides an overview of the ideas of data privacy, re-identification risk, and dataset utility, as well as the correlations between the three. On the adult dataset from the UCI Machine Learning Repository, this study presents a sensitivity analysis of the k-anonymization algorithm. ARX, an open-source anonymization tool, was used to show this.

Keywords: Data Anonymization, ARX, k-Anonymity, Re-Identification Risk

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94 Use and application of nudging in different countries

Paper ID V8I3-1402 · Pages 502-511 · Corporate Social Responsibility

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‘Nudging’ has been a popular technique used by governments, institutions, and other groups to reinforce positive habits and choices among people without the use of force and with ease of opting out. Different countries around the globe have inculcated the practice of ‘nudging’ into their policies for purposes like improving public health, promoting eco-friendly behavior, and more. It’s important to study and analyze past

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experiments with nudging in order to understand what makes a ‘nudge’ effective, which in turn will help formulate better such campaigns in the future.

Keywords: Nudging, Nudge Technique, Nudge, and Public Policy

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95 Investigating the impact of COVID-19 on Transplantation and Transplant patients and observing the further consequences of the virus caused on the lives of the transplanted

Paper ID V8I3-1403 · Pages 512-519 · Medicine

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The purpose of this paper is two-pronged to analyse and assess if COVID has had any impact on the quality of life/longevity of patients who have received transplants. To identify what (if any) impact COVID has had on the lives of patients waiting for transplants. It aims to compare the physical and psychological challenges faced by transplant patients, after transplant and after COVID. For those waiting for transplants, with COVID restrictions, there was a two year period in which transplants were stalled or delayed and therefore looks at the consequential impact on those waiting for transplants. A study was conducted with transplant patients of Indian origin, and transplant surgeons and secondary research findings were conducted since the inception of the pandemic.

Keywords: Transplant, Covid, Quality of Life, Longevity, Indian Origin

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96 Detection of phishing websites using a Machine Learning approach

Paper ID V8I3-1404 · Pages 520-523 · Computer Science And Engineering

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In recent years, advancements in Internet and cloud technologies have led to a significant increase inelectronic trading in which consumers make online purchases and transactions. This growth leads tounauthorized access to users' sensitive information and damages the resources of an enterprise. Phishing isone of the familiar attacks that trick users to access malicious content and gain their information. In terms ofwebsite interface and uniform resource locator (URL), most phishing webpages look identical to the actualwebpages. Various strategies for detecting phishing websites, such as blacklist, heuristic, Etc., have beensuggested. However, due to inefficient security technologies, there is an exponential increase in the number ofvictims. The anonymous and uncontrollable framework of the Internet is more vulnerable to phishing attacks.Existing research works show that the performance of the phishing detection system is limited. There is ademand for an intelligent technique to protect users from the cyber-attacks

Keywords: Machine Learning, Logistic Regression, Random Forest, Naive Bayes, K neighbor, F1 score, and Accuracy.

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97 Migration of Database from Oracle to Sybase System

Paper ID V8I3-1405 · Pages 524-527 · Database Migration

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This Migration intends to give the relocation interaction from an Oracle database to Sybase ASE (Adaptive Server Enterprise). By "migration " we mean the most common way of changing a client-server application at present involving the Oracle database as its RDBMS, to such an extent that it utilizes the Sybase ASE database instead. This Migration has as its essential concentration to move usefulness from Oracle to Sybase ASE. Execution-related parts of Sybase ASE are covered Sybase ASE is the data set that powers Wall Street. ASE has been conveying unshakable dependability and top-level performance for the beyond 25 years. Sybase ASE has a lower total cost of ownership than Oracle and delivers better performance on the same hardware. Sybase ASE is ready to be the database in any application that runs on Oracle today

Keywords: J2EE Spring Architecture, Hibernate, Oracle, Sybase

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98 Image Processing in Industry 4.0

Paper ID V8I3-1406 · Pages 528-532 · Image Processing For Industries

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The world is moving rapidly towards establishing industry 4.0 in every field. The concept of industry 4.0 is to replace humans with Robots or Software bots to perform repetitive tasks and tasks that require a high amount of accuracy and speed. Industry 4.0 is achieved by connecting various machines that can communicate with each other to collect and analyze tremendous amounts of data. These machines are connected to a large number of high-precision sensors and actuators that can help to monitor, operate and manage various

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industrial processes in real-time. The use of machine learning and artificial intelligence has enabled machines to automate various processes that required manual labor and also to make accurate decisions without the need for any human intervention. Image Processing is a major component of Industry 4.0. The main objective of this paper is to understand the concept of image processing, and its application in the industry and to build a simple Machine Vision (MV) solution that uses image processing algorithms to detect an object irrespective of its orientation.

Keywords: Industry 4.0, Industrial Image Processing, Open CV, Machine Vision, Feature matching

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99 The Fall of the Greek Economy

Paper ID V8I3-1407 · Pages 533-539 · Macroeconomics

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Throughout history, numerous countries have faced economic crises at different points in time. Such crises affect the country's economic stability and have a domino effect on the country's social and political atmosphere. One of the most prominent financial crises in recent history has been the downfall of the Greek economy. Through this paper, we aim to understand the reasons leading up to the Greek debt crisis, the policies taken to tackle the grave issue and the aftermath of these policies. We have also covered the current scenario and how Greece's already weak economy is battling the Covid-19 pandemic.

Keywords: Greek Economy, Greece, Greek Economic Crisis, and Greek Debt Crisis

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100 Conceptual Study of Efficacy of Shwadanshtrabala Vati in Garbhini Mutraroga W.S.R to Mild Urinary Tract Infections During Pregnancy

Paper ID V8I3-1412 · Pages 540-545 · Medical

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Ayurveda has given care to the Stree (women) at every aspect of her life in the form of Rajaswala (menstrual care), Garbhini paricharya (antenatal care) and Sutika paricharya(postnatal care). Among all this, giving birth with healthy mother and baby is aim of antenatal care. Progressive changes (both anatomical and physiological) during pregnancy are not only confined to genital organs but also to various systems of the body. Some changes occurring inside woman’s body can be felt as discomfort by a pregnant woman. During pregnancy due to these changes occurring inside mother’s body many maternal illnesses are common among which urinary tract infection (UTI) is most common. pregnant woman having symptoms like burning micturition, frequency of micturition, urgency of micturition, pain during micturition, pain in suprapubic region is considered

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under garbhini mutraroga which can be correlated with urinary tract infection. The Mutraroga are widespread since the Vedic period. Our ancient acharyas had detail knowledge about their management and etiopathogenesis. In explanation of garbhini vyadhi, mutraroga is not described. but Acharya Kashyapa has opined that the etio-pathology of the physical and psychological disorders that occurs in pregnant women is same as in normal individuals i.e doshas, dushya are same in both.i

Keywords: Garbhini Mutra Roga Gokshur Bala

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101 Best Crop Yield Prediction and Maintenance of Soil Fertility using pH Value of Soil: Predicting pH Value using Digital Image Processing and Linear Regression

Paper ID V8I3-1271 · Pages 546-550 · Machine Learning

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the pH of the soil is a key factor that can impact nutrients in the soil and plays an important role in deciding what crops will we yield on the farm as well as fertilizer that farmers will use to make their crops better. The traditional methods are proven by many scientists and have their own disadvantages like sensor damage and maintenance of kits. The alternate solutions such as image processing-based prediction give more accurate and fast results than traditional methods. Here, we have used image processing and a Linear Regression algorithm to identify the pH level of the soil. Basically, to determine the pH level of soil, pH kits from labs are used. But they are not always accurate as they add extra maintenance for the results. To overcome this issue, we proposed a system that can obtain the pH value, recommend the crop for the same and also show the nearest fertilizer stores to the farmer. For crop recommendation system it uses attributes like soil pH, the texture of the soil, the color of soil, and nutrients available in the soil. In this paper, we proposed a method to get the result of soil pH instantly, so that it will be easier for farmers to analyze the crop prediction.

Keywords: Linear Regression, Agriculture, pH of the soil

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102 Placement Assist Bot

Paper ID V8I3-1414 · Pages 551-554 · Ai

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Placement cell is very crucial management deals with Placement activities respective to Universities and Colleges. This brings up Placement coordinators, Students to monitor all the activities easy to handle in all one

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place as a Web Application with (AI) Chatbot facilities. This application has a basic dashboard which stores the information of the student and further used in placement process and activities, Scheduled meetings are notified as well as the placement training activities are handled. The Chatbot which is built on NLP basis where the intent is in the form of json fed to a basic model and trained with the pre-processed corpus and deployed using Flask. This chatbot handles the basic queries related to the placement preparation as per the company specified. Chatbots can engage the users and build a good relationship for more personalised usage/experience.

Keywords: AI, Chatbot, NLP, Intents, Corpus, BOW, Flask

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103 State of Art Study on Steps for Formulating Research Problem

Paper ID V8I3-1411 · Pages 555-558 · Research Methodology

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This paper describes vital steps of a formulating research problem. Formulating research problem is like the foundation of building to be constructed. i.e. Formulating research problem is the base of any research. The choice of formulation of a suitable problem is one of the most difficult task for researcher. The formulating of problem can be said to be most important and main stage in the research activity. Without the formulation of problem research activity will be futile and will not even produce any result. A researcher must find the problem and formulate it so that it becomes susceptible to research. To solve a problem someone has to know about the problem. In each field or area of education, several problems exist which may have reference to pure, applied or action research. With the formulation of research problem also the reader become aware of the result and objective to be conveyed in a study.

Keywords: Area of interest, research topic, research question

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104 Intelligent and adaptive illumination for street lights using IoT

Paper ID V8I3-1416 · Pages 559-560 · Iot & Renewable Energy Systems

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The main purpose of this project is to design an Intelligent and adaptive street lighting system, which ensures continuous lighting for the rural people as they mainly depend on renewable energy sources. This project “INTELLIGENT AND ADAPTIVE STREET LIGHTS ILLUMINATION CONTROL USING IOT” is to minimize the energy cost & electricity losses and also reduce the manpower used in manually switching on-off the streetlights. This

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smart streetlight operates only when required and works autonomously on successive nights even when sunlight is unavailable. Nowadays people are looking for smart systems, with less energy consumption along with less maintenance. On considering the above, these Intelligent streetlights are upended with IoT powered adaptive system, to identify the faulty situations and communicate the same to the maintenance using the IoT-NodeMCU

Keywords: IoT, Intelligent, Adaptive, Aurdino, Solar PV, Streetlights

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105 Diabetic retinopathy detection using Machine Learning

Paper ID V8I3-1349 · Pages 561-563 · Machine Learning

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This project is a machine learning model about "Diabetic Retinopathy detection using AI" Detection of Diabetic Retinopathy: Diabetic retinopathy is a diabetes complication that affects the eyes. It's caused by damage to the blood vessels of the light-sensitive tissue at the back of the eye (retina). At first, diabetic retinopathy might cause no symptoms or only mild vision problems. Risk Factors: Diabetes; Tobacco smoking Diseases or conditions caused: Blindness.

Keywords: Machine Learning, Diabetic Retinopathy, Convolutional Neural Network, Deep Learning, Data Augmentation, Max Pooling, Metrics, Optimizers.

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106 Static structural analysis of tire model

Paper ID V8I3-1415 · Pages 564-565 · Automotive

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In this work, we evaluate Tire Design and Tire Mechanics to identify the most important advancements in improving the design reliability through efficient material selection, design optimization and carrying out reliability analysis. We categorize the research into the areas of Tire Behavior and Mechanics, Design, and Surface Interaction Study. This paper aims to carry out static structural analysis of passenger car tire subjected to real road conditions. The Tire model used in the analysis is designed in Solidworks and includes primary assembly complexity by the inclusion of Carcass, Beads, and Working Belts. Analysis was performed in the Static Structural Suite of Ansys Workbench.

Keywords: Static Structural Analysis, Tire Model, Mesh, Setup, Ansys, Solidworks

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107 Optimization of process parameters for CNC turning on nickel alloy using PVD coated cemented tungsten carbide tool

Paper ID V8I3-1392 · Pages 566-572 · Manufacturing Processing Engineering

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The growing demand for products that resist environments considered severe has stimulated in the last year's series of research. They have the objective to improve the properties of materials and their processing and applications. Among the metals commonly used in extreme temperature and corrosion, there are nickel superalloys. However, the same thermal, mechanical, and metallurgical properties, which make it a material of great applicability, are also characterized as one of the metals of low machinability. Given that the market trend is increasingly using special materials such as superalloys, a detailed study about the machining of these materials is strategic and it is necessary that companies constantly seek to improve their processes. Besides that, the attention to environmentally safe processes from society and governmental regulation is growing. Therefore, this paper evaluates the economic machinability of superalloy Inconel 625 round bar on a CNC turning Lathe machine as Inconel 625 material has many industrial applications. In this work Taguchi's DOE L9 orthogonal array was employed with the aim of simultaneously optimizing surface hardness, cutting force with tooling cost, and cutting time incorporated. Cutting speed, feed rate, and depth of cut were chosen as process control factors.

Keywords: Inconel 625, Taguchi's DOE L9

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108 Internet Gaming Disorder

Paper ID V8I3-1436 · Pages 573-574 · Psychiatry

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Impacts on the mental health due to ever-increasing Internet Gaming and the urgent need to understand the patterns to assist the young generation in recognizing them and making prudent choices.

Keywords: Internet Gaming, Mental Health, Psychiatry, Gaming Industry

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109 To study steps of the scientific research process

Paper ID V8I3-1433 · Pages 575-579 · Civil Engineering

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There is a diversification of approaches to research in any field of investigation, regardless of whether it is applied research or basic research. Each particular research study is unique in some ways because of the particular time, setting, situation, and environment in which it is being approached. Even so, all research venture shares a common goal of stimulating our understanding of the problem, and thus all traverse through certain basic stages, forming a process called the research process. An understanding of the research process is mandatory to effectively carry out research and sequence the stages essential in the process.

Keywords: Research Process, Steps Involve

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110 Secure pass – safe storage and password manager based on cryptanalysis

Paper ID V8I3-1425 · Pages 580-582 · Information Security

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Protecting the passwords that protect our information has become the main priority nowadays as a lot of people are trying to crack into people’s auto-saved info on various applications to track out the passwords to their different accounts which is a major cybercrime that has been seen on an increased number. So we wanted to develop a mobile application that makes sure that no third-party application can access the info saved in the app and this can only be accessed in a very particular way only the user can know. We are also trying to test out a couple of algorithms that can help us to achieve the task with the most efficiency and makes sure has the least time complexity in reacting to users' interests.

Keywords: Password Security, Mobile application, Cryptanalysis

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Replacement of Soya Bean Meal in Poultry Feed with De-Oiled Silkworm Pupa Cake obtained through Pilot-Scale Supercritical Fluid Extraction Technology

Paper ID V8I3-1440 · Pages 583-591 · Biotechnology

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The surge in the price of soybean in the domestic and international market has led to a hunt for a potential alternative for protein sources in poultry feed. Silkworm pupa is a rich nutrient reservoir of fats, protein, minerals, essential amino acids, etc., which is underutilized for its potential nutritional applications. Despite its rich nutritional value, it is considered a waste and discarded unscientifically resulting in serious environmental concerns. Therefore, in the present study De-oiled Silkworm Pupa Cake (DOSPC) rich in protein (64.88%), obtained from defatting the discarded silkworm pupa through a pilot-scale Supercritical Fluid Extraction technology, was used as a sustainable alternative to soya bean meal in poultry feed. For the present study, 1500 numbers of broiler chicks (day old chicks) of COBB variety were selected and divided into 5 experimental groups and 10 replicates per group with 30 birds per replicate, which were fed in amounts of Control Diet comprising 100% Soyabean meal and 0% DOSPC(Group 1), Diet with 25% DOSPC and 75% Soyabean meal (Group 2), Diet with 50% DOSPC and 50% Soyabean meal (Group 3), Diet with 75% DOSPC and 25% Soyabean meal (Group 4) and Diet with 100% DOSPC and 0% Soyabean meal (Group 5). Experimental trials were conducted for 6 weeks and details of average body weight gain, feed consumption, and FCR was collected for each week. The results from this study suggested that Soyabean meal can be replaced with DOSPC up to 50% and/or 75% for optimum FCR and Body weight gain in the birds. Both groups 3 and 4 reported similar output with no significant variation. Body weight gain of 2610 g/bird was observed in the treatment group 3 compared to the control group which was 2324 g/bird, FCR of 1.36 was observed in Group 3 which was significantly better than the FCR of the control group which was 1.52. The immunological assay against Newcastle Disease (ND) and Infectious Bursal Disease (IBD) revealed improved immune response in treatment groups supplemented with DOSPC in their feed. The organometry, histopathological, gut health and overall growth performance of the treatment group were on par with the control group and this suggested that replacement of Soyabean Meal with 50% and/or 75% is beneficial for poultry farming in terms of better nutritional intake for the birds and profitability for the poultry farmers.

Keywords: De-Oiled Silkworm Pupa Cake, Supercritical Fluid Extraction, Poultry, Broiler, Feed, FCR, Growth, Omega 3 Fatty Acid, ELISA, Immunological Assay and Carcass Traits

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112 A smart wearable device for child monitoring and tracking system using IoT technology

Paper ID V8I3-1442 · Pages 592-593 · Electrical And Electronic

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Parents today are concerned about their children and want to keep a constant eye on them. Since this is physically impossible, safety monitoring systems were developed to enable parents to keep an eye on their kids' whereabouts from anywhere in the world. Child monitoring systems can aid parents who need to maintain tabs on their children's whereabouts as well as alleviate the big problem of missing children. The use of geofencing technology enhances the ability to resolve this issue successfully. For determining the child's border, the system makes use of a Node MCU controller. When the child arrives, alert messages are received.

Keywords: Monitoring, Safety, Node MXU, Voltage, Wifi, and Children, etc

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113 Design and implementation of automatic seeding and pour water robot for agriculture

Paper ID V8I3-1441 · Pages 594-595 · Electrical And Electronics

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Agriculture is a significant industry in India, where a large number of individuals choose to work in this field. The population of farmers is declining as a result of the conversion of rural areas to urban ones and the growth of technology. The labour force that formerly assisted farmers in their work is also declining. Therefore, in this circumstance, it is essential for modern technology to play a significant position in improving and making farming a simpler occupation. One such technology that can be employed in many farming operations, such as seed sowing, ploughing, and other tasks as well, and eliminate the need for human labour is robot technology. Therefore, we created a prototype in which an autonomous robot plants seeds in a field of agriculture. In order to improve irrigation, it will sow seeds and pour water. The project also outlines the sequence of activities to be completed in order to create a wheel drive robot and the criteria that must be met before the prototype is built.

Keywords: Agriculture, Irrigation, Robot, Plants, Voltage, Motor, Sowing, and Seeds

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114 A study of research and its various types

Paper ID V8I3-1437 · Pages 596-598 · Civil Engineering

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The main purpose of research is to gain new findings and validate or verify the existing data about the phenomena studied through systematic, scientific, controlled, attentive, mindful, and precise investigation. The types of research are classified as basic research, applied research, analytical research, descriptive research, qualitative research, and quantitative research. All this research includes survey, facts, case study, comparison of facts, mathematical solving, correlation study, and inquiries of different kinds. The main focus of these parts is to understand of types of research methods. Research types are used to collect the relevant data and technique for easy scaling of the various research function making maximum information or data. Research types or methods also give a backbone to the researcher for executing the planning of answers to the research question or finding and testing old facts, and hypotheses thoroughly. This study of the literature review paper discusses the proper use of research types to gather several aspects for the researcher.

Keywords: Basic Research, Applied Research, Quantitative Research, Qualitative Research, Descriptive Research, Analytical Research

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115 Knowledge's contribution to a successful strategy to sustain business in a competitive environment

Paper ID V8I3-1439 · Pages 599-638 · Competitive Advantage

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Knowledge management has emerged as a valuable asset for companies and this paper explores the relationship between knowledge management and strategy, surprisingly there are not many researches available to address the issue.

Keywords: Knowledge Management, Business

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116 Automate Detection of Different Sentiments

Paper ID V8I3-1410 · Pages 639-641 · Computer Science

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Because of their potential applicability to a variety of sectors, sentiment analysis and opinion mining have become increasingly important in both commercial and research applications. As a result, a great number of businesses have made consumer sentiment and opinion analysis a component of their purpose.

Keywords: Sentiment Analysis, Emotion, Opinion

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117 Design of Voltage fluctuation and Arc fault Protection for home appliances

Paper ID V8I3-1438 · Pages 642-648 · Engineering

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Power surges and arc fault tripping can occur simultaneously and can happen both at the same time. Nowadays, there are only a few devices that can protect one at a time. The objective of this study is to design and develop a prototype where a surge protector and an arc fault interrupter can be integrated into a single device. The main components to developing this device are the power surge protector and AFCI. To further support this study, the researchers conducted thorough data analysis and testing. The data analysis conducted by the researchers has three (3) phases. The first phase is to determine if the surge protector is working given its function. At a voltage of 180-265 volts, the surge protector reacted at an average of 1 minute and 34 seconds to normalize the flow of voltage. The second phase of testing is to determine if AFCI is working given its function based on different scenarios such as touching a test probe to a wrong surface, worn or loose connection, gaps in insulation, and corrosion. Finally, the last phase is to integrate the power surge protector and AFCI where a simple parallel connection was successfully used.

Keywords: Voltage Fluctuation, Arc Fault Protection

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118 Objectual understanding of the moments of Sun & Moon in the context of Earth geographical changes influenced by the living and nonliving beings functions followed for better balancing position and the symbological approach.

Paper ID V8I3-1380 · Pages 649-651 · Sociology

Yalla Venkata Chalapathi Rao, Independent Researcher

Objectual understanding of the moments of Sun and Moon in the context of Earth geographical changes influenced by the living and nonliving beings functions followed for better balancing position and the symbological approach. Research-based on the functions followed in ancient and modern times by understanding the moments of the Sun, Moon, and Earth for improving better balance and going through the right directions for obtaining good balancing positions. Explaining the symbological approach for symbolic communication based on the moments of the sun and the moon.

Keywords: Earth Geographical Changes, Behavioral Thinking of The Living Beings, Gravitational Effects, Balancing Positions in The Water, Symbological Approach on Sun and Moon, Moments of Sun and Moon.

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119 The knowledge regarding early warning signs and preventive measures of suicide among caregivers of mentally ill patients from selected psychiatric hospitals.

Paper ID V8I3-1444 · Pages 652-657 · Mental Health Nursing

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Suicide is an act of taking one's own life voluntarily. The caregivers often come in contact with patients to find the early warning signs and preventive measures for suicide among mentally ill patients. The objective of the study were1) To assess the knowledge regarding early warning signs of suicide among caregivers of mentally ill patients. 2) To assess the knowledge regarding preventive measures of suicide among caregivers of mentally ill patients. 3) To find out the association between the knowledge of early warning signs of suicide among the caregivers of mentally ill patients with selected sociodemographic variables. 4) To find out the association between the knowledge of preventive measures of suicide among the caregivers of mentally ill patients with selected sociodemographic variables. Material and methods of study were tools developed in the form of three sections demographic variables, general knowledge and early warning signs of suicide, and preventive measures of suicide. The non-probability purposive sampling technique was used for selecting 150 caregivers from psychiatric hospitals. Results of the study indicated that findings of demographic variables reveal that, there was a significant relationship found between knowledge of early warning signs of suicide with religion, residence, duration of care given by caregiver and there was a significant relationship found between knowledge of preventive measures of suicide with a diagnosis of the patient, religion, duration of care given by caregiver, History of suicide attempts inpatient. The finding of the study reveals that a maximum number of samples (62.7%) had average knowledge of early warning signs, (20%) had Good knowledge, and (17.3%) had poor knowledge of early warning signs of suicide. And a maximum number of samples (56%) had average

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knowledge of preventive measures, (21.33%) had good knowledge, and (22.67%) had poor knowledge of preventive measures for suicide. The study concluded that caregivers have significant knowledge about the early warning signs and preventive measures of suicide among caregivers of mentally ill patients.

Keywords: Knowledge, Early Warning Signs, Preventive Measures, Suicide, Caregiver, Mentally Ill Patients.

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120 Effectiveness of awareness program on disaster preparedness and mitigation among teachers in selected secondary schools of City.

Paper ID V8I3-1445 · Pages 658-662 · Community Health Nursing

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Emergency planning is a systematic and ongoing process that should evolve as lessons are learned and circumstances change. Its aim is to prevent emergencies from occurring and when they do occur, good planning should reduce, control or mitigate the effects of the emergency. One group pre-test post-test design was used in this study. A purposive sampling technique was used to select 150 Secondary school teachers. Based on the objective collected data was analyzed by using descriptive and inferential statistics like mean, median, standard deviation, paired t-test, and chi-square test. An analysis finds depict that the corresponding p

Keywords: Effectiveness, Awareness Programme, Teachers, Disaster Preparedness and Mitigation.

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121 Low mutual coupling with dual-element MIMO system for sub-6 GHz 5G and WLAN applications

Paper ID V8I3-1450 · Pages 663-669 · Antennas

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A Two-band double port MIMO radio wire which is having low common coupling is proposed for the 5G/WLAN application. The general size of the MIMO receiving wire is (18 × 44 × 0.8) mm3. The inconsistent arm of the IFA(Inverted F-Antenna) is the justification behind the two groups. Bowing and expanding the size of the arms with the flight of stairs shape is liable for the proposed two groups having a thunderous recurrence at 3.5 GHz (3.3 GHz-3.65 GHz) and 4.7 GHz (4.76 GHz-5.5 GHz) separately with rate impedance data transmission of 10% and 15%, individually. The proposed receiving wire utilizes a straightforward Defected Ground Structure (DGS) in view of rectangular openings and roundabout stubs to accomplish Low Mutual Coupling (better than 15.2dB and 15.4dB separately for the two groups) between the ports. The ongoing dissemination and radiation designs are inside as far as possible. The Software utilized in this Antenna configuration is Ansoft HFSS Software.

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Keywords: Mutual Coupling, WLAN, 5G, MIMO (Multiple Input And Multiple Output), Ansoft HFSS Software

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122 Comparative Study of CSR Spending by Selected Companies in India-A Post mandatory CSR scenario

Paper ID V8I3-1446 · Pages 670-674 · Csr

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The present study aims at comparing the CSR expenditure and coverage of activities by the top 10 CSR spending companies in India as reported by the National CSR portal of India. In India, CSR is governed by clause 135 of the new Companies Act 2013. Many directives regarding CSR spending have been laid down in the new clause. It is found that though public sector organizations have performed well private sector has performed better as far as the amount spent on CSR is considered. Other than Covid's response, Education and Health have been the top priority focus area for the top 10 CSR spending companies in India.

Keywords: Corporate Social Responsibility, CSR Spending, Focus Area- Education, Health, Rural Transformation and COVID 19 Response.

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123 Smart building for smart cities

Paper ID V8I3-1430 · Pages 675-678 · Embedded Systems

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A smart city is formed for the well-being of the citizen by providing them with technology-based solutions to make their daily activities easy, fast, and optimized. In known smart city models, major city utilities are connected to the main control unit of the regulator authorities (governments) which collects data from various sources to take necessary actions when a problem arises, enabling the city to run smoothly. The "Smart building" concept is based on embedded systems and IoT (Internet of Things) Technology. The presented model includes different features using which we can automate various tasks in our workplaces.

Keywords: IoT, Pollution Monitoring, Light Intensity, Building fall Detection, Parking Detection, Smart Cities

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124 Detection of weeds in agricultural crops using deep neural networks

Paper ID V8I3-1454 · Pages 679-682 · Deep Neural Network

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Weeds create a dangerous situation for growing crops in the agricultural field. They directly affect the growth of the crops and hinder the yield by reducing the quality and quantity of crops. In order to find solutions for the problems created by weeds, so much research has been carried out in the different domains so that crop yield can be increased and the pollution of the soil and environment can be reduced which is caused by the excess use of fertilizers on the agricultural field to remove the weeds. Deep Neural Network algorithms have been used in the proposed system to classify the weeds and crops using different algorithms and discover the optimal solution. By considering the results obtained from the algorithms of the Deep Neural Network, The comparison has been made by considering the parameter like accuracy, and finally by applying which algorithm the highest accuracy has been obtained is noted.

Keywords: Image Processing, Deep Neural Network, DNN, YOLOV4, ResNet50, InceptionV3

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125 Prevalence of Intestinal Helminths and Associated Factors among the Inhabitants of Selected Villages, around Usmanu Danfodiyo University Sokoto, North-Western Nigeria

Paper ID V8I3-1368 · Pages 683-687 · Environmental

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A cross-sectional study was carried out from October 2021 to March 2022 to assess the prevalence of intestinal helminth infections and associated factors among the inhabitants of selected villages around Usman Danfodiyo University Sokoto, North-Western Nigeria. A structured questionnaire was used to gather data on the demographic and risk factors associated with the intestinal helminth infections, stool samples were collected and examined for helminth eggs using the formalin-ether concentration technique. The overall prevalence of intestinal helminth infection in the study area was Ascaris hembricoides (35.0%) Strongyloides Stercorarius (9.0%), Trichuris trichivra (7.5%), Schistosoma mansoni (3.5%) and Heokwom (3.0%). Out of the 200 subjects examined for infection, 119 (59.5%) were found to be positive. The prevalence of helminthic infection in relation to sex was recorded with males having comparatively more infections (52.3%) than females (37.8%). However, there was a strong negative correlation between helminth infection and sex Υ = - 0.50. A weak negative correlation was also found between age and prevalence of intestinal helminths Υ = - 0.15. Bush defaecation showed the highest infections of Ascaris infection than water closet and pit latrine. However, there was no significant association between prevalence and toilet facilities (P>0.05). The study demonstrates a significant burden of intestinal helminth infections in this part of Nigeria and highlights the need for intervention measures.

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Keywords: Intestinal Helminths, Inhabitants, Prevalence, Open Defecation

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Technical Loss Reduction on Feeder-3 of an Electric Cooperative In Pampanga, Anao Substation by Feeder Reconductoring

Paper ID V8I3-1409 · Pages 688-696 · Electrical Engineering

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A technical loss reduction program has been activated by distribution utilities due to the increasing electricity demand. This paper focuses on the analysis of reconductoring the existing Feeder 3 with 3-phase, 2/0 conductors, ACSR, and 19.6 km in length. Feeder reconductoring is a technique where the existing conductor of the feeder is replaced by a more prominent conductor of optimal size and length. Two alternatives had been proposed; 4/0 conductor size was proposed in Alternative 1, while 336 size conductor was proposed in Alternative 2 in reconductoring the existing feeder. Technical loss reduction analysis, voltage regulation analysis, and cost-benefit analysis were performed to determine what alternative reduce the technical loss significantly, improve the voltage regulation, increase the capacity of the wire and be more economical to the distribution utility. Considering the results, Alternative 2 accounts for the highest reduction in technical loss, with an average of 65.8% technical loss reduction from 2022 to 2023. Also, Alternative 2 has the most significant improvement in voltage regulation with an average of 1.39% regulation due to low voltage drop. In terms of economic factors, implementing Alternative 2 is more beneficial to the distribution utility and can save 1,532.54 MWh of energy from 2022 to 2031. If converted into a monetary unit, the distribution utility can save Php 14,620,462.32. Implementing Alternative 2 is attainable and justifiable since the Benefit/Cost ratio is greater than 1.

Keywords: Technical Loss, Reconductoring, Electric Cooperative

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127 Seed quality assurance regulations and certification system in India: A review

Paper ID V8I3-1448 · Pages 697-701 · Seed Science And Technology

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The Certified seed being a soul of agriculture is scientifically produced from the seed of known genetic origin and genetic purity with controlled and tested production, processed, and declared in accordance with the Law on Seeds. Seed certification is a legally sanctioned system for quality control and seed multiplication and production as the quality seeds are inevitable to meet the challenges of the ever-increasing population by ensuring food security. Seed; being a carrier of technology, over a period of time emerged as a trade commodity. Seed quality assurance in India is subjected to the jurisdiction of the Seeds Act 1966, wherein quality seed must satisfy the requirements of Indian Minimum Seed Certification Standards (IMSCS), whereas; under the global scenario seed quality assurance system for seed export comes under the scope of Organization for Economic Cooperation and Development (OECD) standards and International Seed Testing Association (ISTA) methodology of seed testing. The present paper reviews the important stages of the seed certification procedure to be followed to ensure the quality of seed and related aspects of quality regulations in the Indian contest.

Keywords: Seed Certification, Seed Quality, Seed Production Chain, and Seed Testing

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128 Smart pothole detection system using Machine Learning

Paper ID V8I3-1434 · Pages 702-708 · Machine Learning

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Roadways are considered the primary mode of transportation around the world. In recent years we have seen a major surge in the numbers of private as well as public vehicles traversing the road on a daily basis. As such it is very important to be cautious about potential mishaps due to road damages which can result in serious consequences. Heavy traffic, severe weather conditions, and many other things can be a major hindrance in the way of keeping the roads in good condition. Thus for traffic safety, it becomes very important to identify the various road damages, especially the hazardous ones, as quickly as possible. In this project, we are using machine learning to make a road damage identifier system that can work to detect the damage caused by various reasons.

Keywords: Accident, Potholes, Machine Learning, Arduino.

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129 Resource demand prediction for minimizing power consumption at data centers

Paper ID V8I3-1459 · Pages 709-713 · Computer Science

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Technical progress in servers, systems, and capacity virtualization is empowering the production of resource pools of servers that allows various application workloads to share each server in the pool. This approach proposes and assesses the parts of a capacity management process for creating an efficient utilization of such pools and also facilitates a huge quantity of business administrations. The objective of our approach is to give a capacity management procedure to resource pools that let capacity organizers coordinate-free market activity for resource limits in a given interval of time. In this approach, we will describe the workloads of big business applications to pick up experiences for their conduct. In this paper, we will follow a trace-based approach for capacity management that relies upon the definition of required capacity and portrayal of workload request designs. The exactness of scope quantification expectations relies upon our capacity to describe workload request examples, to perceive patterns for expected changes in future requests, and reflect business conjectures for any sudden changes in future requests. A contextual analysis with 6 months of information that speaks to the asset utilization of 159 workloads in a venture server farm shows the adequacy of the proposed limit administration handle. Our results and conclusion will show that whenever we will use 8 processor systems, we will predict the exact future per-server required capacity to 1 processor every 98 percent of the time. This approach will enable a 38 percent reduction in processor utilization as compared to today's current best practice for workload placement. This knowledge will help resource pool operators to decide on the best capacity for their server pools.

Keywords: Workload, Capacity Management, Sliding Window, Resource Pool.

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130 Pests Prediction and Detection of Disease Spreading Frequency in Native crops using Machine Learning Technique

Paper ID V8I3-1453 · Pages 714-717 · Machine Learing

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Disease and pest control models can generate information on agrochemical use only if necessary, reducing costs and environmental impacts. With machine learning algorithms, it is possible to develop models that will be used for diseases and pest warning systems to improve the effectiveness of chemical control over coffee tree pests. Therefore, infection rates are linked with climate change and measured and evaluated by machine learning algorithms for predicting the occurrence of diseases. Algorithms that are tested to predict incidence are (a)Multi-line regression (RLM); (b) K Neighbors Regressor (KNN); (c) Random Forest Regressor (RFT), and (d)Artificial Neural Networks. Pearson correlation analysis is to be considered under three different time periods,1-10 days (from 1-10 days before the incidence evaluation),11-20d, and 21-30d, and used to evaluate

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the unit correlations between the weather variables and infection rates. The number of days, maximum temperature, and relative humidity exceeding 80% are meteorological variables that show a significant correlation with this disease. There is a negative correlation with rainfall, and the severity of pests decreases with increasing rainfall. Machine learning algorithms can be used to predict diseases and pests.

Keywords: Pearson Correlation, Multiple Linear Regression, K Neighbors Regressor (KNN) Random Forest Regressor (RFT), and Artificial Neural Networks

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131 Implementation of standard criteria for effective medical equipment preventive maintenance practice in District General Hospital – Nawalapitiya, Sri Lanka.

Paper ID V8I3-1457 · Pages 718-723 · Medical

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Implementation of standard criteria for effective medical equipment preventive maintenance practice in District General Hospital – Nawalapitiya, Sri Lanka. ABSTRACT Somaratne, C.J.K.1, Dharmaratne, G.S.K2 1. Director, DGH Nawalapitiya, Sri Lanka 2. Deputy Director General (Laboratory Services), Ministry of Health, Colombo, Sri Lanka. Contact email: janaka.somaratne@yahoo.com Background: Scarcity of financial resources has resulted in limited Inspection and preventive maintenance activities for the items of medical equipment in the hospitals of Sri Lanka. There is no standard criteria method applied for selecting items of medical equipment for maintenance strategies such as annual service agreements in public sector hospital of Sri Lanka. Objective: To implement effective medical equipment preventive maintenance practice in relation to service agreements of DGH Nawalapitiya. Methods: The study was carried out in year 2016 and a comprehensive data base for the medical equipment was developed initially. The new method was applied to prioritize the items of medical equipment of District General Hospital Nawalapitiya to select the items of medical equipment for annual service agreements. Results: Total of 642 items of medical equipment were identified in the hospital and 430 (66.9%) items and 212 (33.1%) items were found to be functional and non-functional respectively. According to the Wang - Levenson criteria, AEMR values were calculated, and the functional items of medical equipment were prioritized in a descending order. AEMR values were varying from maximum value of 30 to minimum value of 2. The priority list was utilized for the annual service agreements of the hospital for year 2017 / 2018 and 80 % of the items were selected according to the list. Conclusions: The Provincial Health Department has already taken initiatives to implement the new method at DGH Nawalapitiya and planning to implement it in the other health care institutions of the province. Key Words: DGH Nawalapitiya, Medical equipment, Wang & Levenson criteria, prioritization, Annual service agreements.

Keywords: DGH, Nawalapitiya, Medical Equipment, Wang and Levenson Criteria, Prioritization, Annual Service Agreements.

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132 Intelligent security response system

Paper ID V8I3-1449 · Pages 724-726 · Cybersecurity

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Secure product development is the mantra for having lesser vulnerabilities during the life cycle of a product. There are many well-known frameworks and policies companies have been following to ensure the same. E.g. Shift left security. While this is a proactive measure in ensuring security, the reactive support from the security response team also plays an equal role. The mission of any Security Response Team is to protect confidentiality, integrity, and availability of companies' & customers' data by ensuring a responsible disclosure of security vulnerabilities reported by external/internal sources in the product portfolio and in the services portfolio. Through this study, an attempt is made to find out and list down the risks involved if there is a deviation from responsible disclosures by external researchers and along with that explore a technical solution that could help companies have the details of the risk, at first hand. The very reason to name this solution an "Intelligent Security Response System" is that it brings in that extra intelligence that sometimes slips out from normal proactive monitoring solutions. The solution also has the capability to intelligently identify risk ratings and filtering logic, from the historic data which gives it an upper hand in terms of quickly identifying and notifying a threat with a false positive. With the onset of the latest technological disruptions, and the bad actors using all means to exploit the product vulnerabilities, this study also intends to identify the possible shortfalls and opportunities for improvement.

Keywords: ISRS, Product Security, PSIRT, Responsible Disclosure

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133 Ayurvedic and modern literary overview of menopause

Paper ID V8I3-1358 · Pages 727-732 · Ayurveda

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Menopause is a natural process and one of the important milestones in women's life. According to modern science, it is defined as cessation of ovarian function resulting in permanent amenorrhea lasting for at least one year. It causes many changes in the body and mind due to hormonal changes. There is a nearly 50% reduction in androgen production and a 90% reduction in estrogen production at the time of menopause. Due to this various physical, and mental changes occur in women. Degenerative changes start in reproductive organs. Various early and late symptoms are seen. "□□□□□□ □□□□□□□ □□□□□□ □□□□□□□□□□□□□□□ " -□□.□□□. (□□ .□. □□□□□□□□□□□ □-□□) The ayurv naturopathic lifestyle with a lot of discipline and control with medicine . According to Ayurveda menopause is called "Rajonivrutti ". Rajonivruttijanya laxana is a group of symptoms produced by degenerative changes in the body. Degenerative changes are explained in ayurveda as dhatukshaya, Vata dosha dominance is seen in this stage of life.1

Keywords: Menopause, Rajonivrutti

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