International Journal Of Advance Research, Ideas And Innovations In Technology

VOLUME 7 - ISSUE 6

IJARIIT

SPECTRUM

International Journal of Advance Research, Ideas and Innovations in Technology

November-December, 2021

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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 7, Issue 6 (November-December, 2021). This edition brings together 96 papers by 254 authors from 106 institutions. Each entry links to the abstract and the full paper.

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e-ISSN 2454-132X

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ABSTRACTS

1 Method Development and Validation for the estimation of Azilsartan in Bulk and Pharmaceutical Dosage Form by using HPLC

Paper ID V7I6-1137 · Pages 1-2 · Pharmaceutical Analysis

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A simple, sensitive and rapid stability indicating HPLC method was developed and validated for the determination of Azilsartan in bulk and pharmaceutical dosage form. The method was developed by HPLC using a Inertsil C18 (250x4.5mm ID) 5µm column in a isocratic mode with mobile phase constituted by buffer: Methanol and water, pH 3.5 flow rate was 1.0ml/min, column temperature at 20-25°C, UV detection wavelength 240nm and 20µL of injection volume. The retention time of Azilsartan was 3.084min. The validation parameters were in accordance with ICH specifications, assay exhibited a linear range of 50-250µg/ml with regression coefficient 0.998. The limit of detection and quantification were 0.46 µg/ml and 1.42 µg/ml. Accuracy was between 98-102%. The drug was subjected to various stress conditions like peroxide, photolytic, acidic, alkaline, thermal degradations. Stress study of Azilsartan was found susceptible to degrade under hydrolytic (acid and base) conditions. The proposed method has stability indicating the resolution of the main peak from their degradation peak

Keywords: Azilsartan, Water, Methanol, HPLC

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2 Five Level Inverter for Renewable Energy Power Generation Systems

Paper ID V7I6-1143 · Pages 3-5 · Engineering

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A five level inverter is developed and applied for to reduce the switching loss, harmonic distortion and electromagnetic interference caused by the switching operation of power semiconductor devices.

Keywords: PV Array, MPPT, Converter ,Islanding, Inverter

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3 Validated RP–HPLC method for determination of Magaldrate and Simethicone in tablet dosage form

Paper ID V7I6-1145 · Pages 6-8 · Pharmaceutical Analysis

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A RP-HPLC method was developed for the estimation of Magaldrate and Simethicone in tablet dosage form which is simple, less time consuming using an economical column. The essay of the sample has been carried out with assay percentage of 99.56% and 101.97% Magaldrate and Simethicone respectively. The developed method has been validated for different parameters like, precision, ID precision, Linearity, Accuracy, Robustness, LOD and LOQ and it is simple, specific accurate and economical.

Keywords: Magaldrate, Simethicone

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4 House Price Prediction using Machine Learning

Paper ID V7I6-1155 · Pages 9-13 · Information Technology

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In today's society, everyone wants a home that fits their lifestyle and budget while still providing the facilities they require. House values fluctuate a great deal, indicating that they are typically overstated. Many criteria must be considered when projecting house prices, including the location, number of rooms, carpet area, age of the property, and other fundamental local features. This study seeks to forecast house prices based on all of the main factors that go into deciding the price.

Keywords: Machine Learning, Supervised Learning, Linear Regression, Model, Ridge Regression

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5 Stock Market prediction made easy with Machine Learning algorithms

Paper ID V7I6-1138 · Pages 14-20 · Machine Learning

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Rishabh Raj, Research Scholar, Aryabhatta College, University of Delhi, Delhi

The main objective of this paper is to find the best model for predicting the stock market movement. We have tested various models based on machine learning that were previously implemented and during the process, we found out that the Random Forest and Support Vector Machine algorithms were not exploited well. In this paper, we are going to find out a more feasible method to predict the stock market with higher accuracy. We have taken a dataset of stock market prices from previous years and pre-processed the data for real analysis. So, our paper will also be focusing on pre-processing of the raw dataset. After pre-processing, we will be

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reviewing the use of random forest and support vector machine on the datasets and the outcome it generates. The paper also examines the feasibility of the prediction system in real-world settings and issues associated with the accuracy of predicting the market. If this model achieves higher accuracy than previously implemented machine learning algorithms then it can prove to be a great asset for stockbrokers, institutions, and individual investors.

Keywords: Stock Market, Machine Learning, Support Vector Machine

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6 Simulated and observed DO (Dissolved Oxygen) values for selected major stations of spring-fed Kosi River stretch through model WASP (Water Quality Analysis Simulation Program)

Paper ID V7I6-1144 · Pages 21-26 · Water Resource Engineering

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The river Kosi is a spring fed river of Indian Himalayan region which quenches the thirst of major population of Kumaon region. The model WASP (Water quality analysis simulation program)is a widely used model suggested by EPA that can help simulate the water quality processes in diverse water bodies as reservoirs, ponds, lakes river like surface water bodies. The analysis in the 4 major selected stations of the stretch for Dissolved Oxygen was found to be 4-11mg/l as measured value whereas simulated values ranged from 1 mg/l to 10mg/l at the origin of the river, whereas at the end point of the river the simulated and measured value ranged from 4mg/l-8mg/l , 6mg/l. The Dissolved oxygen in the water is very essential to estimate the water quality as it directly affects the aquatic life and also signifies the presence of organic matter as well as microorganisms in the water. The continuous variations in the DO levels are observed in the entire stretch. The probable reason is uneven rainfall, scattered population and terrain complexities of the region. The continuous and frequent merging of various springs into the main course river results in frequent fluctuations in the physicochemical parameters of the river. This study is an attempt to comparatively analyse the water quality of the only river of the region with the simulated values from model WASP and observed water quality from daily sampling from the water body.

Keywords: WASP, Simulation, Dissolved Oxygen, Water quality, Aquatic life

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7 A Study on Industrial Labour in India

Paper ID V7I6-1162 · Pages 27-32 · Labour Economics

Dr. Tejashwini, Assistant Professor, Government First Grade College Tekkalakote, Karnataka

India is the most industrious country . Labor is The sum of vital utpadanangaddu , laborers economic

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Development is very Do The sum of important Job category plays . Efficient and skilled workers, are for The real What Wealth of the for The the in COUNTRY . It is important to study the conditions of labor . Done by Industrial labor -in, to General Tulu language islarge and small And cottage industries employing maduvavaragiruttare. But working -in, for The conglomerate INDUSTRIES controlled by the for The Factory Act,-in, , India | Workers done by Industrial, not Do ONLY What pics INDUSTRIAL workers is considered to the BE is also the The sum of the cottage in the industry, working maduttiruvavarannu INDUSTRIAL workers would BE is also the considered . For the industrialization of the Apes slowly goes from being an industrial worker , to the settlement in the number of slower growth . Is, India | for The LARGEST Organized As the INDUSTRIAL working sramikarannu ONLY What INDUSTRIAL workers to the BE is also the considered-in, In 1991,, for The workers of the ONLY What 88.79 -in, for The 4.72 million to workers-in, for The private sector for, karyaniratarагiddaru. Of the total 28.5 crore workers in the country, industrial workers account for only 3.17 per cent . 2008, the-in, for The state owned MANUFACTURING sector for working to the workers, for The of the in NUMBER 108. 44 million and 49.5 of the private manufacturing sector . In the same period , the number of organized public sector jobs is 177 million , since the number of private organized sector employees is 92 million rather than the number . Both together and added to the 275 million business agiruttare. For The HIGH in NUMBER of the workers-in, for The Cotton industry and for The Work is now to the , India | is to the BE is also the found.

Keywords: Labour, Labour Organization, Trade Union Movement, Industrial Disputes, Social Security

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8 HR Analytics Using Tableau

Paper ID V7I6-1156 · Pages 33-35 · Business Analytics

G. Raghav, Research Scholar, VIT Business School, Chennai, Tamil Nadu

1) The dataset deals with employee details like age, travel profile, department, designation, monthly income, marital status, salary hike, involvement etc in the company and also attrition rate of the employees in the company 2) We need to determine the attrition of employees in the company 3) We also determine the major causes of attrition of employees in the company and to address it.

Keywords: HR Analytics, Tableau

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9 Real Estate Price Prediction using Ensemble Methods

Paper ID V7I6-1168 · Pages 36-39 · Machine Learning

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Real estate is one of the popular fields in current society. Customers should be very careful when they are buying or selling the property. There exist several reasons for increasing in the demand of land and houses. The factors like locality of house, the rooms it consists of and cost of living at that particular place plays an

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important role for deciding the value of house. Automated house price prediction can be done using linear regression, random forest and linear classification methods which are also termed as Ensemble methods. In the system, the data will be cleaned initially like removal and detection of extreme data from datasets and then the algorithms be applied.

Keywords: Machine learning, Ensemble Methods, Linear Regression, Random Forest.

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10 A critical review of alternative raw materials that can be used in the production of lyocell to make it cost competitive

Paper ID V7I6-1170 · Pages 40-46 · Environmental Chemistry

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The textile industry is one of the largest contributors to the looming climate crisis. Cotton, the most popular fabric, severely harms the environment because of its high water and carbon footprint. In current times, achieving sustainability is of utmost importance. Lyocell, a regenerated cellulosic fiber, is an eco-friendly alternative that offers similar benefits as cotton. However, due to the use of hardwood as a raw material in commercial production, it is twice as expensive and hence not widely adopted. This literature review evaluates the use of other raw materials that can be substituted into the conventional lyocell production process. The cost-effectiveness, time needed for implementation, and environmental impact of the method of generating the dissolving pulp and additional steps required for each alternative have been compared. After a critical evaluation, it was concluded that polycotton waste would be the most suitable alternative raw material as it will not harm the environment while also reducing pollution and offering a solution to recycle textiles and PET plastic, hence promoting sustainability and restoring the environment.

Keywords: Production of Lyocell, Sustainability, Eco-Friendly Alternative to Cotton, Recycling in the Textile Industry, Cost Competitiveness, Raw Materials for Dissolving Pulp

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11 Expanded Polystyrene (EPS) waste: An Emerging monster in Lagos municipal solid waste

Paper ID V7I6-1181 · Pages 47-54 · Environmental Science

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Expanded Polystyrene (EPS) also referred to as Styrofoam, is a form of plastic frequently use for food packaging. This research focuses on the generation, disposal, and negative effects of waste EPS in Lagos Municipal Solid Waste (MSW). Studies from some specific locations in five Local Government Areas (LGAs) of Lagos showed daily usage of EPS (as food package) by street food vendors and its negative impact on the environment and human life. Qualitative analysis of these locations of Lagos state has shown how several factors including the properties of EPS such as low cost, light weight, versatility, low recycle value and non biodegradability has contributed to the surge of EPS waste in Lagos state. This paper shows how street food vendors and consumers' attitudes have contributed to defacing the aesthetic quality of Lagos state.

Keywords: Expanded Polystyrene (EPS), Lagos State, Municipal Solid Waste (MSW), Street Food Vendors

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12 Dietary fat intake pattern of adults during the COVID-19 pandemic in the City of Mumbai, India

Paper ID V7I6-1186 · Pages 55-59 · Food Science & Technology

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Obesity is a growing public health issue across the globe and in India, which is increasing the risk of other chronic diseases. A high quantity of fats and an imbalance of fatty acids contribute to inflammation and faster disease progression. To study the food-based dietary fat intake patterns of adults during the COVID-19 outbreak in the city of Mumbai, India. Adults (n=103), both males and females (30-60 years of age) were selected from one of the cities in India, Mumbai, by purposive sampling, meeting the inclusion and exclusion criteria. In this survey, a KAP questionnaire was administered to understand the fat intake patterns. The data was analyzed by SPSS 26 to obtain mean and SD, frequencies, and percentages. The majority of the participants (60.2%) reported being overweight, while only 27.2% of the participants reported with normal BMI. Sixty-six percent of the participants reported 'not checking' the nutrition labels before purchasing any packaged food items; 32% showed to be never changing their cooking oils, and 51.5% of them reported to be re-heating the oil. The present study had the majority of the participants leading a sedentary lifestyle due to pandemic situations and nationwide lockdown. It also covers various aspects of lifestyle behaviors and eating habits, particularly of dietary fats which contribute as major risk factors to develop non-communicable diseases (NCDs).

Keywords: Dietary Fats, Fatty Acids, Dietary Patterns, COVID-19 Period, Pandemic

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13 Method development and validation for the simultaneous estimation of Atenolol, Hydrochlorothiazide, and Losartan potassium by using RP-HPLC

Paper ID V7I6-1191 · Pages 60-64 · Pharmaceutical Analysis

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A simple, precise, rapid, and accurate RP-HPLC method was developed for the simultaneous estimation of Atenolol, Hydrochlorothiazide, and Losartan Potassium in pharmaceutical bulk drugs and tablet dosage forms. The method was developed by using HPLC (Shimadzu LC2010-CHT) with UV detector and Symmetry C18 (4.5 x 100mm, 5µm, make: waters) at 1.2 ml/min flow, column temperature – 27°C and a mixture of Methanol and water in the ratio of 65: 35 v/v as Mobile phase and diluent at 225nm wavelength, injection volume of 20µl with Isocratic flow for 10minutes run time. The accuracy studies show that % recovery for Atenolol, Hydrochlorothiazide, and Losartan Potassium at 50%, 100%, and 150% were found to be within 98-102%. Retention times were found to be 1.467 min, 2.208 min and 3.292 min for Atenolol, Hydrochlorothiazide and Losartan Potassium respectively.

Keywords: RP-HPLC, Recovery, Isocratic, Accuracy, Method Development, Validation

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14 A Review on Health Monitoring System

Paper ID V7I6-1169 · Pages 65-68 · Health Monitoring

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Mobile devices are largely used in almost every aspect nowadays as they are easy to carry and access. Considering this large use of mobile phones, it will be beneficial to use them in the healthcare system to make the medical data easy to carry, accessible, manageable, and will increase efficiency. We looked at the pros and downsides of some of the proposed systems, as well as other methodologies, during the survey. Every year, a big number of people are diagnosed with chronic diseases, necessitating an enormous amount of medical resources. As a result of the expanding patient population at healthcare facilities, remote monitoring techniques are becoming increasingly important. The healthcare industry's technology has advanced at a remarkable pace in recent years. According to the past few years' estimation and recent findings, remarkable growth has been observed in data acquisition and monitoring systems for healthcare. One of the research papers proposed a system that aims at improving healthcare management by analyzing health parameters like blood pressure, body temperature, heart rate, and predicting heart problems. Especially for the patients when they are mobile, this is of great advantage. The system aims to alert the application user in case of any abnormalities by analyzing the health parameters.

Keywords: Health Monitoring System, Sensors, IoT Technology

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15 Design, analysis, and fabrication of an electric hybrid dune buggy

Paper ID V7I6-1193 · Pages 69-75 · Mechanical Engineering

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This paper's main goal is to discuss all aspects of designing an electric hill buggy. In this consideration, a hitherto unseen and lighter rising buggy chassis is offered. Using Autodesk Combination 360, a CAD model of the chassis was created, as well as a Limited Component Investigation. To mimic the effect behavior on the chassis, a stacking model of 4g, 6g, 8g, 10g, and 16g was used, Fabric selection, chassis design, crosssection assurance, and roll cage quality requirements were all part of the planning and development process. To build up our directing, we followed Ackermann's controlling geometry. Lotus Shark was used to plan and test the suspension architecture of the rover speed and clamp force of the vehicle. The results of simulations performed in Autodesk Fusion 360 under various loading situations revealed that this design has shown appropriate resistance to deformation in front, rear, and side-impact testing. There was more than one aspect of safety in every circumstance. As a result, the suggested design was shown to be totally safe in testing settings. Before putting it to the test in real-world situations, however, comprehensive modeling and simulation studies are required. The Lotus Shark simulations revealed that the suspension geometry chosen for our design had the least amount of bump steer, camber angle shift, and toe angle change during suspension bump and droop. A dune buggy is a vehicle designed for use on dunes and roads. Such a type of vehicle is primarily used for recreational purposes.

Keywords: Design, Buggy, Electric Hybrid Vehicle

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16 Issues and challenges faced by vendors in unorganized setup – A study on vegetable vendors of Chhatarpur District, Madhya Pradesh

Paper ID V7I6-1195 · Pages 76-80 · Social Science

Gautam Choudhary, Independent Researcher, Independent Researcher
Angita Raghuwanshi, Independent Researcher, Independent Researcher

Developing countries like India with flooded populations provide a very limited amount of employment avenues in organized sector that needs highly skilled individuals. So the extended need of employment remains unmet which insists the majority of unskilled and illiterate population to dig the opportunities available in unorganized sector. Vegetable vending on being an unorganized sector work provides opportunities for unskilled people to get engaged with very low level of initial investment but in absence of any policy or rule at ground level the situation of vendors remains abysmal. The paper intends to ascertain the problems, gender representation,

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socio-economic status, literacy level and other issues encountered by vegetable vendors in Chhatarpur district of Madhya Pradesh. Data has been collected from three different vegetable markets of Chhatarpur. Study infers that vendors have multiple challenges and impediments which forced them to live a miserable life. Appropriate policies, social security schemes, permanent place of selling and curbing on goons at ground level can have positive impact on the lives of vegetable vendors and their family members.

Keywords: Bazaar, Vegetable Vendor, Unorganized Sector

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17 Role of machine learning in text classification – An extensive review

Paper ID V7I6-1203 · Pages 81-85 · Machine Learning

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Cyberspace has elevated business insights and created a virtual space to store all forms of information online. Due to the rapid development in the online world, the usage of digital documents has increased because it is comfortable for the users to share, update or keep track of the records in one place without losing data. However, maintaining massive data does not suit optimal decision-making and is extremely expensive for storage, processing, and collection. There is a gigantic possibility that human annotators make errors while classifying data because of distraction, monotony, fatigue, and failure to meet the requirements. Once the text classification method uses machine learning approaches, the process will execute with fewer mistakes and more accuracy. The main goal of this review paper is to highlight and explain the role of different machine learning methodologies in text classification. Concurrently, this paper describes the challenges faced by other machine learning techniques and text representation. Furthermore, this review paper will provide an extensive survey on how various machine learning techniques such as Neural Networks, Naive Bayes, Logistic Regression, Random Forest, Decision Trees, and Support Vector Machine (SVM) - are implemented in Text classification.

Keywords: Text classification, Support Vector Machine (SVM), Neural Networks, Naive Bayes, Logistic Regression, Random Forest (RL), Decision Trees, Machine Learning Techniques, Sentiment Analysis

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18 High-speed machining in milling process – A review

Paper ID V7I6-1192 · Pages 86-91 · Manufacturing

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This article presents a review work on high-speed milling as reported in various journals and proceedings. High-speed milling is an advanced metal cutting process that involves rapid speed and feed rates to improve productivity and surface finishing quality. This technology eliminates the disadvantages of traditional machining. Wear and breakage of tools, material behavior certain hard to machine metals, effects of various cutting parameters on surface finish, and its modern technique are discussed in this paper.

Keywords: High-Speed Milling, Wear, Cutting Parameters, Surface Finish

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19 Study of self drug administration among 2nd professional medical students

Paper ID V7I6-1142 · Pages 92-94 · Medical Science

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Background Self-medication is very common in our day to day life which is an unhealthy and risky practice. Present study was done to determine the knowledge, attitude and practice among 2nd Professional medical students of RIMS, Ranchi, Jharkhand. Material & Methods A questionnaire related to self-medication with consent was prepared and distributed among the students of 2nd Professional. Data was collected and analysed the results expressed as counts and percentages. Results Total 50 students participated in the study for taking self-medication and was no need to visit the doctor for minor illness. In maximum students, source of information of the drugs used for self-medication pharmacological based and learning process in the college. The source of drug was medical store. Most of the students took self-medication for loose motion & headache followed by cough, cold & fever. Out of total 50 students most of the students took paracetamol tablet as self-medication. Conclusion This study showed that third professional medical students after they studied pharmacological books they do not use any wrong medicine as self-medication. High level of awareness of 2nd Professional students has minimized self medication. Key words- Self-medication, Questionnaire, 2nd Professional.

Keywords: Self-medication, Questionnaire, 2nd Professional.

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20 Analysis of stock market crash during COVID -19

Paper ID V7I6-1200 · Pages 95-98 · Computer Science

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The Coronavirus pandemic has been observed to have had a dramatic impact on the Stock market and financial sectors all over the world. The pandemic has severely affected economies and the stock market in many emerging countries and continues to do so. There has been a sudden unprecedented dip which has adversely affected investors in only a short time. This paper aims to analyze and understand the effects of Covid 19 on the stock market and the global economy. The spillover of the pandemic in various sectors like banking,

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entertainment, health, education is deeply studied and reviewed. The research method used in the paper is a systematic literature review of the research with the cluster of keywords identified as the central objective. The paper aims to understand the different scenarios of the stock market and how it crashed during the pandemic.

Keywords: Coronavirus, Pandemic, Stock Market

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21 Difference between behavioral finance and traditional finance

Paper ID V7I6-1190 · Pages 99-101 · Bba Ib

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Global financial markets are leveraged by many factors: The process of economic which takes place in the world, institutional and political hampering, information disperses and attainability, etc. In behavioral finance people's reactions, as well as perception, are one of the most significant factors. Not only institutional investors but also individual investors who have been investing in financial markets in recent decades have become more popular. Short-term price changes are influenced by market participants that are not always based on logic, sometimes they can be inspired by mood or instant news. That is why Investing decision depends on the object and its financial status in the future. Whereas In traditional finance experts find out financial locus admired not by the error-prone and emotional Homo sapiens, but by the stunning Homo economicus. Behavior finance models always depend on a concept of independent investors who are susceptible to judgment and decision-making fallacy. This article issues a brief introduction on behavioral finance, which encircle research that drops the traditional premise of expected efficient markets.

Keywords: Economics, Global Finance, Emotional Homo Sapiens, Behavioral Finance, Traditional Finance

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22 Using corpus linguistics in the development of writing

Paper ID V7I6-1206 · Pages 102-104 · Linguistics

Dr. Layth Hussein Mohamdsalih, Gujarat University, Ahmedabad, Gujarat

Using Corpus Linguistics in the Teaching of Writing SkillsCorpus linguistics has a strong justification in the teaching of writing skills because it can identify patterns of authentic language use by analyzing actual usage. The purpose of this study is to list the most frequent corpora and to investigate helpful, economical, and user-friendly software programs used in the development of writing abilities, such as the WordSmith Tools or TextSTAT. In addition, the author gives various examples of how corpus linguistics might be used to help students improve their writing skills. For example, concordance allows you to see any word or phrase in context so you can identify who it hangs around with. As a result, pupils can see the differences between words they frequently mix up (e.g., excited vs. exciting). the emergence of writing

Keywords: Corpus, Quantity, Representation, Simplicity, Equality, Verifiability, Augmentation, Genre, Documentation, Database, Language, Design, Application, Generation, Text-Type, Time-Span, Writers, Target-User, Written Corpus, Collection,

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Internet,

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23 Converting biomass waste into biodegradable utility robot with L298N dual channel with IR sensor

Paper ID V7I6-1207 · Pages 105-106 · Electronics

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Arpit Gupta, Research Scholar, Welkiv Solutions, Jaipur, Rajasthan
Aarti Vasrheny, Research Scholar, IU International University of Applied Sciences, Bad Honnef, Germany

(A) - State of the Art and Utility: The Whole initiative projected has been planned for eco-friendly recycling of the plant waste for general utility means like food packaging, show-pieces and even in the creation of decorative drawing-room art - pieces too with further bright expansion scopes. And later the residue was left over through biodegradation (vermiculture methodology) to produce organic manure for use in home kitchen gardening and flowering pots. This way, plant waste has been targeted for better use and recycled for the most effective residue conversion. It is the most eco-friendly, convenient, cost-effective, less hazardous, and a softly welcome. (B) - The Economics: The project has been considered taking care of availability rather scavenging of the plant waste employing usually practiced physical method and minimum of the state-of-the-art facility.

Keywords: IR, L298N Dual, Robot, Biomass

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24 Positive effects of social media sites on children’s language acquisition

Paper ID V7I6-1205 · Pages 107-111 · Linguistics

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Social media websites and applications have emerged as a new means of communication and self-expression in the modern world as a result of high-tech breakthroughs and the growing relevance of worldwide communication. Globalization has compelled individuals to receive and disseminate information swiftly, and as a result, people of all ages have been pushed to acquire digital skills, which they use to meet their desire for learning and being informed about global issues. All kinds of individuals of all ages use social media tools and applications all around the world to express themselves, get to know other people, share their thoughts and learn others' opinions on global issues, interact, and have fun. In terms of its effects on youngsters, social media offers both benefits and drawbacks.

Keywords: Social Media, Global Communication, Social Media Children

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25 Analysis of the importance of social class in dictating marriage matches in Emma by Jane Austen

Paper ID V7I6-1202 · Pages 112-114 · English Literature - Fiction

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Analyzing the significance of social class in determining potential matrimony matches. Social class and marriage are two foci and this paper makes an argument about the role that social class plays in establishing nineteenth-century marriage alliances in the novel Emma. The paper discusses the various match-making attempts enlisted in the novel and follows each of them in detail to establish its reasoning.

Keywords: Jane Austen, Emma, Social, Class, Hierarchy, Structure, Status, Marriage, Match

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26 An NLP Based Algorithm for Subjective Answer Checking

Paper ID V7I6-1213 · Pages 115-117 · Computer Science

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In the current pandemic situation, where not only the classes, but also the exams are being conducted in online mode, an artificial intelligence-based agent can evaluate the subjective type answers not only efficiently, but also fairly with considerably good accuracy. Using Natural language processing helps in reducing the manual labor for the evaluation of hundreds of similar answers and makes the process easier and faster. An agent to check answers automatically and provide an evaluation based on certain parameters are the basis for this paper. The tutor/teacher gives certain inputs to the agent which are looked for in the answers and accordingly the answers are graded by the agent. The grades given by the agent are as good as the grades given by a human teacher. In this paper, we've proposed a technique using Natural Language Processing to evaluate subjective answers.

Keywords: Automated System, Automatic Subjective Answer Checking, Automatic Scoring, Automatic Evaluation, Artificial Intelligence, NLP

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27 Handwritten Digit Classification using CNN

Paper ID V7I6-1212 · Pages 118-123 · Cnn

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Since people's writing styles vary in form and orientation, handwritten digit identification is a difficult job. Two steps are essential for the production of effective handwritten digit recognition. The extraction of discriminating features from handwritten images is the first step, and the classification of new digit images is the second.

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Convolutional Neural Networks (CNN) are at the heart of spectacular developments in deep learning that combine Artificial Neural Networks (ANN) and cutting-edge deep learning techniques. Pattern recognition, sentence classification, speech recognition, face recognition, text categorization, document interpretation, scene recognition, and handwritten digit recognition are only a few of the applications. Our project's aim is to improve detection accuracy by expanding the model depth. This is accomplished by increasing the number of layers and the number of filters. The Modified National Institute of Standards and Technology (MNIST) datasets were used for this performance assessment using CNN.

Keywords: Convolutional Neural Network, Handwritten Digit Classification, MNIST Datasets, Artificial Neural Network, Deep Learning

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28 Correlation between sitting balance and functional independency with quality of life in neurological conditions

Paper ID V7I6-1211 · Pages 124-126 · Neurology Rehabilation

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The maintenance of the postural balance is due to a set of reflexes that trigger responses based on visual, vestibular or somatosensory stimuli. the object is to find the correlation between the functional level and the quality of life in neurological problem patients. This study is a correlation study design, which intends correlate the sitting balance and functional performance (in activities of daily living like dressing. Transfers and forward wheeling) within the sample. The entire subject performed the modified functional reach test and the results were observed for correlation with pre-specified functional activities performed by the subjects. In my study I found that the quality of life is much more affected in the patients have sitting balance, this is may be the population of the different country. So we can say that all four domains are significantly different. All four have impact on patients. First domain has more impact on patients.

Keywords: Physiotherapy Health Care Rehablitation

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29 Women entrepreneurs in Kerala and their investment behavior

Paper ID V7I6-1218 · Pages 127-130 · Commerce

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Quantum of investment has become one of the most significant determinants of the rising of the economy. The economic independence combined with the support they get from the members of their families has increased the significance of women's entrepreneurship. Economic development becomes meaningful when women enter mainstreams. The present study is confined to various aspects of investment and investment avenues, factors

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influencing the investment behavior of the women entrepreneurs, support from family, motivating factors, and problems faced by them while investing their money. The majority of the respondents were married and they opt for the goodwill of the company, easy withdrawals, and risk-free investments as their motivating factors for investment. There is no significant relationship between the marital status of women entrepreneurs and motivational factors for investment. Therefore, we conclude that majority of the respondents have their family member's support.

Keywords: Investment, Women Entrepreneurs, Risk, Goodwill

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30 A Critical Review and Analysis of a wearable sensor-based activity prediction system to facilitate edge computing in the smart healthcare system

Paper ID V7I6-1220 · Pages 131-132 · Internet Of Things

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With the increase in IoT's influence in healthcare systems, handling big data is a very tedious way and still a big challenge to handle big data obtained through the cloud IoT systems. That is why this paper has put forward Edge-of-Things(EoT)computing. The proposed system focuses on processing sensor data and activity prediction on devices such as laptops, GPU in a smart home. The proposed system put forward will be meticulously analyzed bringing out its advantages and disadvantages in the same domain and will be put out.

Keywords: Healthcare Systems, Wearables, Internet of Things, Edge-Computing, RNN, etc.

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31 Reliability and validation of the tools used for sitting balance in neurological conditions

Paper ID V7I6-1224 · Pages 133-136 · Neurological Rehabilation

Rakesh Kumar Singh, Research Scholar, Jaipur Physiotherapy College, Maharaj Vinayak Global University, Jaipur, Rajasthan
Dr. Ajeet Kumar Saharan, Principal, Jaipur Physiotherapy College, Maharaj Vinayak Global University, Jaipur, Rajasthan
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Anuja Choudhary, Research Scholar, Jaipur Physiotherapy College, Maharaj Vinayak Global University, Jaipur, Rajasthan
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A balance disorder is a condition that makes you feel unsteady on your feet and dizzy. Dizziness is a general term for different symptoms of imbalance. Balance tests are a group of tests that check for balance disorders. Trunk control in NMD is impaired by progressive muscle weakness which is exacerbated by resulting inactivity. Given that the TCT has a good correlation with Balance is a complex motor skill that depends on interactions between multiple sensorimotor processes and environmental and functional contexts. This is a methodological research design this study is a correlation study design, which intends correlate the sitting balance and walking

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within the sample. All the subject performed trunk control test and follow the sitting balance scale and the results were observed for correlation with pre-specified functional activities performed by the subjects.Trunk control in NMD is impaired by progressive muscle weakness which is exacerbated by resulting inactivity. The most important finding of our study, in which we draw attention to the assessment of trunk control in NMD, is the fact that the TCT is a reliable and valid test which can yield results related to a patient's functional level and guide clinicians during the clinical intervention period. The tools which we have used for the study is now validated and reliable.

Keywords: Physiotherapy, Health Care, Rehabilitation

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32 Religious influences on holistic/analytical thinking and rates of mental illness

Paper ID V7I6-1217 · Pages 137-141 · Psychology

Preyashi Poddar, The International School of Moscow, Moscow, Russia

Differences in thinking styles, particularly holistic versus analytical between Eastern and Western cultures, might be the reason behind different rates of mental illness between the two. In my paper, I explore the potential determinants of these divergent thinking styles, specifically focusing on religion. Through literature review, I make the case that Buddhist and Christian beliefs are associated with holistic and analytical thinking styles, respectively, and ultimately lead to varying rates of mental illness between the two cultures.

Keywords: Holistic Thinking, Analytical Thinking, Religion, Buddhism, Christianity, Affective Disorder

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33 The relationship between customers' monthly income and perception towards e-banking

Paper ID V7I6-1223 · Pages 142-146 · E-banking

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Dr. Abbokar Siddiq, Associate Professor, University College, Mangalore University, Mangalore, Karnataka

This descriptive study aimed to measure customers' perceptions towards e-banking services provided by Yemeni banks and to find out whether the customers' monthly income is related to their perception of the service. The sample included 189 respondents. Data was collected online using a five-point Likert scale questionnaire. The statistical tests applied for data analysis were frequency descriptive analysis, one way ANOVA and Pearson correlation. The study revealed that the perception of Yemeni customers towards E-banking is high, there is no difference in perception towards e-banking services among users who have different monthly income and there is no relationship between monthly income and customers' perception towards e-banking services.

Keywords: Customers' Perceptions, Monthly Income, E-Banking, Services, Yemen

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34 Awareness and perception of diet and nutrition in individuals with Diabetes Mellitus

Paper ID V7I6-1248 · Pages 147-155 · Diet And Nutrition

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Dietary knowledge and awareness in individuals with diabetes is an important aspect of diabetes management. Several studies have evaluated the awareness of diabetes among the diabetic population. However, limited studies have focused on the relation between nutrition awareness and dietary intake in Indian individuals with diabetes. The present study assessed the awareness and perception regarding the importance of nutrition in individuals with diabetes. It aimed at identifying the knowledge gaps by evaluating the relationship between nutritional awareness and dietary self-care behavior in Indian subjects with diabetes. The study design comprised a cross-sectional survey to assess the awareness about nutrition and nutrient intake in the diabetic population across India. A total of 1000 adults with diabetes were administered a diet recall using Nutri-Calculator, an app-based nutrient calculator, and a structured questionnaire. The nutrient calculator recorded food intake in a 24-hr recall and analyzed nutrient intake in comparison with the respective RDAs (Recommended Dietary Allowances). The nutrient intake report was generated at the end, that mentioned the current intake against the RDA for each survey respondent. The questionnaire evaluated the awareness and perception of the subjects regarding the foods and nutrients that are important in diabetes. The survey was conducted using computer-aided telephonic interview (CATI) methodology and each survey was screened for quality checks after completion. After the survey analysis, it was observed that the majority (95%) of the respondents were aware of the importance of protein intake in diabetes. Nearly, 86.5% assumed that they had an adequate intake of proteins; however, the nutrient intake analysis revealed only 14.8% of respondents were meeting their daily protein requirements. Out of the total respondents, it was observed that 92% of the respondents were aware of the importance of fiber intake in diabetes. Nearly, 81.4% assumed that they had adequate intake of fiber; however, the nutrient intake analysis revealed that only 21.2% of the respondents were consuming a diet adequate in fiber. Furthermore, it was found that the majority of the respondents did not meet the RDAs for micronutrients. Additionally, the study also revealed that dietary deficiency of macronutrients, namely fiber, and protein, resulted in greater hunger pangs in these individuals. In conclusion, the study revealed that the respondents were aware of the importance of protein and fiber in their diet; however, the majority of the respondents consumed a diet deficient in these nutrients as well as micronutrients. This dietary deficiency could have led to an increased frequency of hunger pangs in these individuals. Furthermore, most of the respondents were unaware that a low glycemic index diet is beneficial in the management of diabetes. The study highlighted the need for an effective diet and lifestyle counseling for the management of diabetes.

Keywords: Nutrition Awareness, Dietary Intake, Protein-Deficient Diet, Fiber, Diabetes, Glycemic Index

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35 The fundamentals of Neuro-linguistic Programming (NLP)

Paper ID V7I6-1237 · Pages 156-162 · Linguistics

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neuro-Linguistic Programming (NLP) is a new field, concerned with people's patterns of behavior and communication. Patterns include not only observable actions in the world but also the thinking processes and the organization of people's states of mind as well as their emotions and how all senses are used to reach a point of attention or concentration. Many applications of NLP have been created as a result of its focus on constructing models of human excellence. Furthermore, NLP's global diffusion has been well documented, with corporate executives and consultants turning to the creative and inventive components of NLP for inspiration in organizational growth, total quality management, team building, and strategic planning. However, while there is a substantial body of knowledge about NLP in the Western Hemisphere, nothing is known about it in the Arab world. The purpose of this paper is twofold: to assess NLP patterns and behaviors as practiced by a sample of UAE employees and managers in order to shed light on current workplace practices in the UAE, and to assess the impact of NLP on respondents' behavior and its implications for the organization's objectives. As a result, a survey questionnaire is used to do a quantitative analysis. The sample population consists of employees and managers from various industries and work situations. The research's findings are expected to describe the workplace environment by identifying the dynamics of UAE employees and managers who are thought to play a vital part in the organization's health evaluation.

Keywords: Behaviors, Neuro-Linguistic Programming, Quantitative Analysis, UAE

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36 Mechanical characterization of E-Glass/Epoxy composite with a filler material as Ceramic Powder

Paper ID V7I6-1246 · Pages 163-166 · Composite Material

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Mukund Kavade, Professor, Rajarambapu Institute of Technology, Uran Islampur, Maharashtra

Glass Fiber Reinforced Epoxy (GFRE) composites play a huge part in practically every aspect of daily life, and the subject of glass composites has become one of the most important study topics in the last decade. To improve mechanical qualities, polymers are usually reinforced with fibers or fillers. The mechanical properties of E-glass/Epoxy composites filled with ceramic materials as filler material were investigated in this study. Composites containing varying percentages of ceramic powder, such as 5%, 10%, and 15%. The ASTM-compliant testing specimen was created using the hand layup method. The mechanical parameters of the produced composites, such as ultimate tensile strength, flexural strength, and Rockwell hardness, were investigated. The test findings show that composites with a 5% volume fraction of Al2O3 filler material had the lowest hardness and therefore highest ultimate tensile strength.

Keywords: GFRE Composite, Hand- Layup, Filler Material, Ceramic Powder, Mechanical Properties

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37 Gendered Occupations

Paper ID V7I6-1243 · Pages 167-170 · Sociology

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Does a person's gender really affect their performance at work? The answer is yes. The idea is that these days we won't see a problem with a woman working for a man or a man working for a woman and wages, sexism, and gender classification in the workplace. This issue would be a social conflict due to the tensions between men and women within the workforce. This paper aims to contribute to a broader understanding of occupation by conceptualizing gender occupation as a theoretical tool to help scholars decipher the gender and politicized nature of the occupation. For certain jobs, just labeling them as "female" diminishes their influence, regardless of how many males are in the area. It seems that some occupations are so gender-specific that this has become an integral part of their de facto definition. Gender-specific job titles such as “midwife” and “postman” actively encourage the inclusion of gender in their definitions.

Keywords: Gender, Occupation, Segregation, Inequality

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38 Management of kitchen waste by using the vermicomposting method in Solapur

Paper ID V7I6-1201 · Pages 171-174 · Management Of Kitchen Waste By Using Vermicomposting Method

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Vermicomposting is a process in which earthworms are used to convert organic materials into humus-like material known as vermicompost. A number of researchers throughout the world found that the nutrient profile in vermicompost is generally higher than traditional compost. In fact, vermicompost can enhance soil fertility physically, chemically, and biologically. Physically, vermicompost-treated soil has better aeration, porosity, bulk density, and water retention. The chemical properties such as pH, electrical conductivity, and organic matter content are also improved for better crop yield. Nevertheless, the enhanced plant growth could not besat is factory explained by improvements in the nutrient content of the soil, which means that other plant growth influencing materials are available in the vermicomposts. Although vermicomposts have been shown to improve plant growth significantly, the application of vermicomposts at high concentrations could impede the

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growth due to the high concentrations of soluble salts available in the vermicomposts. Therefore, vermicomposts should be applied at moderate concentrations in order to obtain maximum plant yield. This review paper discussed in detail the effects of vermicompost on soil fertility physically, chemically, and biologically. Future prospects and economy on the use of organic fertilizers in the agriculture sector were also examined.

Keywords: Vermicomposts, Management of Kitchen Waste

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39 IoT based pothole recognition framework

Paper ID V7I6-1234 · Pages 175-179 · Electronics And Communications Engineering

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Maintenance of road conditions is a major problem in recent years in developing countries. Nowadays, road infrastructure is too much important because most road accidents take place due to bad conditions of roads like potholes. Potholes are made because of poor quality of use while making roads. The constant movement of overweight vehicles like trucks is also responsible for these ill roads. Also, these ill roads cause damages to vehicles in terms of tires and shockers and the most important thing is the accidents which are caused due by this. An optimal system should be developed to monitor the road condition and analyses it for future work. We propose an innovative method to resist these accidents and other means by using the advanced sensor system. The sensors will be attached to vehicles and from vehicles, the data are obtained from sensors and the location obtained by the GPS are transferred to road transport authority by IOT where officials take immediate actions. Using the data obtained, the more damaged areas can be prioritized and damage can be reduced.

Keywords: IoT, Analysis, Sensors, Prioritization, Road, safety

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40 Case study of traffic network improvement at Saat Rasta Solapur

Paper ID V7I6-1247 · Pages 180-182 · Traffic Network Improvement At Saat Rasta

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This study is carried out to review various research works carried out by researchers on the effects of poor traffic management on road. Poor traffic management causes early increases in accidents and obstacles in the road causing a blockage road as pointed out by researchers. To prevent or minimize premature accidents and achieve the safe and efficient movement of people and goods on roadways, to enhance the performance of the road. Traffic engineering is that branch of engineering which deals with the improvement of traffic performance on the road networks and terminals through systematic traffic studies, scientific analysis, and engineering applications. Traffic engineering includes planning and geometric design on one hand and regulation and control on the other. Traffic Engineering, therefore, deals with the application of scientific principles, tools, techniques, and findings for the safe, rapid, economical, and efficient movement of people and goods. In this project, first of all, we decided to select a particular area i.e. Sat Rasta Chowk to plan the signals, pedestrian, information board, and zebra crossing with proper planning and, we try to minimize the accident points in that particular area i.e. Sat Rasta Chowk. The review concluded that the effect of poor traffic management conditions on a road is very adverse. It causes the number of accidents on road.

Keywords: Traffic Management, Sat Rasta Chowk, Zebra Crossing

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41 Reliability analysis of heavy earth machinery, for Predictive Scheduling using Kolmogorov-Smirnov Probability Test and Convolutional Neural Network

Paper ID V7I6-1276 · Pages 183-188 · Mechatronics Engineering

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Predictive maintenance is undoubtedly one of the foremost deeply divisive topics in asset management and maintenance. I investigated numerous publications, whitepapers, and analysis methods so on critically assess the facts and certain outputs. We used a paradigm that identifies four degrees of predictive maintenance maturity to look at the instant practices. This is the aim at which the digital revolution collides with routine maintenance. Fronted with fierce global competition, every sector is continuously trying to take care of equipment efficiently and effectively to fulfill planned production and productivity standards. As a result, it's

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even more critical to gauge equipment performance. With this in mind, this study uses KS Probability tests and convolutional neural network (CNN) model of a load haul dumper (LHD) to forecast the share of reliability, availability, and preventative maintenance schedules.

Keywords: Matlab, Predictive Maintenance, Run To Failure, Ks Probability Test, Convolutional Neural Network Architecture

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42 Mythical theories of language origin in the old

Paper ID V7I6-1261 · Pages 189-192 · Linguistics

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People of all eras and times have always been fascinated by the enigma of the "Origin of Language." Various ethnicities and civilizations have their own legendary explanations of language's genesis. The many and fascinating stories about the origins of language finest represent humanity's fundamental desire to decode the unfathomable and inexplicable fact of human existence. India, America, Mesoamerica, North America, Amazonas, Brazil, Europe, Africa, Southeast Asia and Oceania, Polynesia, Australia, and the Andaman Islands all have their own mythology about the origins of language. The purpose of this paper is to lay out the various myths surrounding the origin of language and to demonstrate how these myths explain the mystification and confusion surrounding the enigma of language's creation. "The foundation of speech is not dreary seriousness, but simple play and youthful hilarity; the genesis of language is not to be sought in the prosaic, but in the poetic aspect of existence... When boys and lassies competed with one another to attract the attention of the other sex, when everyone sang his merriest and danced his boldest to lure a pair of eyes to cast admiring glances in his direction, I hear the laughing screams of exultation in primitive speech. "Language was born in the days of mankind's courtship," argues O. Jespersen (See Yule, 1997)

Keywords: Origin Of Language, Mythological, Language

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43 Socio-economic status of MGNREGA availed population of Valsad, Gujarat

Paper ID V7I6-1265 · Pages 193-195 · Management And Social Science

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The MGNREGA is flagship programme of government of India which is unique in nature and implemented in rural areas of all districts of the country.Employment is the key factor for the reduction in the poverty and providing the sustained living standard of the people especially in rural areas. Valsaddistrict was covered under the MGNREGA in the second phase in 2006. In the total population of district about 63% population belongs to the rural area. The agriculture and its allied activities are the major activities for livelihood of the people living the rural areas of the district. This study was found that MGNREGA had positive impact on income, expenditure and savings status of the beneficiaries. Before joining in MGNREGA, an average family income, expenditure and savings of the beneficiaries were Rs. 11,896, Rs. 6,809 and Rs. 2,226 respectively. However, after joining in MGNREGA, an average family income, expenditure and savings of the beneficiaries were reported to Rs.

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15,242, Rs. 10,016 and Rs. 4,538 respectively.This study found that the beneficiaries were given an average of 78 days of employment per year under the program. However, this employment program aims to provide employment of 100 days a year.Overall this programme was involved much to improve the socio-economic status of population of Valsad district.

Keywords: MGNREGA, Poverty, Valsad District, Working Days, Migration

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44 Experimental investigation on the partial replacement of sand with plastic in concrete

Paper ID V7I6-1259 · Pages 196-198 · Concrete Technology

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One of the main environmental problems today is the disposal of waste plastics. On the other side, the Indian Construction Industry is facing problems due to the insufficient and unavailability of Construction Materials. To find a solution to the above problems, one of them can be used to solve the other. In this experimental study, an attempt has been made to use waste plastics in concrete. The use of plastics in various places as packing materials and the products such as bottles, polythene sheets, containers, packing strips, etc., are increasing day by day. This results in the production of plastic wastes from all sorts of livings from industrial manufacturers to domestic users. To circumvent this pollution crisis, many products are being produced from reusable waste plastics. On the other side, the Indian construction industry is facing problems due to the insufficient and unavailability of construction materials. So, we need to search for new construction materials as well as a method to dispose of plastic waste. To find a solution to the above problems, one of them can be used to solve the other. In this experimental study, an attempt has been made to use the waste plastics in concrete, and studies have been conducted to focus particularly on the behavior of compression members with various proportions of plastic wastes.

Keywords: Thermoset, Thermo Plastic Polymers, Crystalline Materials, Amorphous Solids, Granulated Plastic, Specimen, Cubes, Cylinder, Beam

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45 Alternate hot and cold compress, short-term Intervention for knee Osteoarthritis

Paper ID V7I6-1264 · Pages 199-203 · Naturopathy Medicine

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Background Humans residing with knee osteoarthritis (OA) generally present with the problem of strolling lengthy distances, ascending and descending stairs, or standing from sitting. those practical boundaries have been shown to have a poor effect on their typical activities of each day living. Intention: The look aimed to

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evaluate the impact of hydrotherapy on pain, features, and muscle function in knee osteoarthritis. Approach: A total of 18 members with persistent knee OA participated in this look. members finished 4 weeks of hydrotherapeutic intervention. Final results measures for the have a look at covered pain assessed using the visual analog scale (VAS) and self-perceived functional status the usage of the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC). outcome measures have been assessed at baseline and after the 4 weeks of intervention. Results: The four-week hydrotherapy application led to a substantial lower in pain and large development in self-perceived purposeful popularity in all participants. There was a statistically massive suggestion lower in VAS rankings, there was also a statistically massive mean lower in WOMAC scores. Conclusion: This observes established that a four-week change warm and cold compress outcomes in drastically decreased ache and progressed self-perceived useful fame in people dwelling with knee OA.

Keywords: Hydrotherapy, Naturopathy, Alternative System of Medicine

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46 An enhanced artificial neural network model for short term load forecasting in smart grid

Paper ID V7I6-1263 · Pages 204-210 · Electrical Engineering

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Accurate short-term load forecasting in the power system may efficiently cut power generating costs while also improving the system's economic and environmental advantages. ARIMA Model, Parameter Regression Model, Kalman Filter Model, and other traditional short-term power demand forecasting methods are examples. Short-term load forecasting of power systems has become commonplace, thanks to the fast advancement of computer technology and the widespread application of AI technologies in the power sector. In this paper, we have designed a short-term load forecasting model using an enhanced ANN. The ANN model is enhanced by determining the optimal weights it using a hybrid combination of the optimization algorithm. In our work, we have hybrid the firefly and PSO algorithm. The performance analysis of the presented model is done to show its effectiveness over the existing models in MATLAB using various parameters.

Keywords: Firefly Algorithm, Load Forecasting, Optimization Algorithm, Particle Swarm Optimization Algorithm, Smart Grid

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47 Energy management in smart grid using hybrid combination of bat and particle swarm optimization algorithm

Paper ID V7I6-1262 · Pages 211-216 · Electrical Engineering

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Puneet Jain, Assistant Professor, Adesh Institute of Engineering and Technology, Faridkot, Punjab

In order to implement the increasing rate of demand in the residential sector and also that to facilitate the overall integration of the renewable resources and that the plug-in of the electrical set of vehicles within the future if the smarter grids. This particular set of papers proposes a proper set of framework for the home

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energy management system or the HEMS and that of the optimizations of the algorithms which is based upon the hybrid combination of BAT and PSO algorithm. The simulation is performed in MATLAB and various performance metrics are calculated for it. The result shows that the proposed method reduces 76.04% and 55.31% cost factor as compared to the actual load for 3 and 5 devices. Further, the proposed method reduces 59.81% and 38.59% cost factors as compared to Sisodiya et al. [12].

Keywords: Smart Grid, Particle Swarm Optimisation, Energy Management, Bat Algorithm

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48 Famous cyber attacks in the history of cyber security

Paper ID V7I6-1281 · Pages 217-219 · Cyber Security

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As we move forward toward technology and digitization, we have witnessed a frequent rise in Cyber Attacks resulting in various data leaks. Cyber Attackers are capable of keeping their identity hidden and staying low while gaining access to the data. To avoid all this we require to carry a full-fledged analysis of different types of cyberattacks for the purpose of educating people and making them aware of different types of cyber-attacks that exist and secure their data. In this research paper, I will analyze the most famous cyber attacks in the history of cyber-security: WannaCry Ransomware, Nasa Cyber-attack, Estonia Cyber-Attack, Sony Pictures Cyber-attack, Melissa Virus Cyberattack, etc.

Keywords: Nasa Cyber Attack, Wannacry Ransomware, Melissa Virus Cyber Attack, Estonia Cyber Attack, Sony Pictures Cyber Attack

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49 BārahMāha and Sṛṅgāra Rasa : Seeking Union With God

Paper ID V7I6-1286 · Pages 220-223 · English

Balvinder Kaur, Independent Researcher

BārahMāha, as the title unfolds, is the description of twelve months in which the emotions and yearnings of the human heart are expressed in terms of the changing moods of Nature over the twelve months of the year. In it, the mood of Nature in each month depicts human soul longing for union with God, the way a woman longs her spouse or lover. Here the human soul the protagonist which suffers in the cesspool of transmigration as a result of its separation from the Supreme Soul. The present paper aims at hatching the graph of the journey of human soul, depicting the pangs of separation of the bride through twelve months, i.e., the human soul separated from her Divine Essence in the light of śṛngārarasa. Following the footsteps of Guru Nanak, Guru Arjan also adopted the folk poetry style for his compositions. Present paper elaborates the Guru Nanak's BārahMāha.

Keywords: BārahMāha, Sṛṅgāra Rasa, Śri Guru Granth Sahib, bāṇī, God.

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50 Optimized data hiding based steganography approach to secure the confidential information in smart grid

Paper ID V7I6-1292 · Pages 224-230 · Electrical Engineering

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The standard electrical power grid is integrated with information and communication technologies in a smart grid (ICT). Such integration empowers electrical utility providers and consumers to increase the efficiency and availability of the power system and allows customers' needs to be continually monitored, controlled, and managed. A smart grid is a massive, complicated network made up of millions of linked objects and organizations. With such a large network comes a slew of security problems and flaws. Cryptography and steganography algorithms have been applied to give security in SG. The steganography algorithm hides the important data in the cover media to provide imperceptibility to the attacker. Image is the most essential cover media in steganography. The least significant bit (LSB) method is used to hide the confidential information in the cover image. The hiding process provides variability in the cover image. In this paper, an optimized data hiding method is proposed to reduce the variability. The proposed method has two phases. In the first phase, the confidential information bits are matched with LSB bits of a cover image pixel. For matching purposes, an original or complemented form of confidential information bits is matched with cover image pixel and if a match is found then the index is determined. In the second phase, the indexes are hidden in the cover image in an optimal way using the JAYA optimization algorithm. The optimization algorithm searches the optimal starting point in the cover image for index hiding. After searching the optimal starting pixel, hide the index using the k-bits LSB method. The proposed method is simulated in MATLAB and performance analysis is done using various parameters. The simulation outcomes represent that the presented method is better than existing methods.

Keywords: Confidential Information, JAYA Algorithm, Least Significant Bit, Smart Grid, Steganography

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51 The relevance of TVET education in preparing graduates for the labor market in Kenya

Paper ID V7I6-1283 · Pages 231-235 · Education

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Christopher Wosyianju, Lecturer, University of Eldoret, Eldoret, Kenya

The economy of Kenya is an industrializing one with a number of manufacturing and service industries and robust service sectors that are all well established. In order to support the continued growth of these industries, it is necessary to ensure that the TVET training institutions produce graduates with competencies that are relevant to the world of work. This study sought to assess the relevance of TVET education in preparing graduates for the labor market. The research design employed was a simple random sampling method with a sample population of 91 comprising of TVET graduates and the Heads of Departments drawn from TVET institutions engineering departments in Rift Valley and Nairobi regions. A large number of the academic Heads of Department in TVET institutions respondents disagreed that the skills and experience in training prepare the

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graduate well for the labor market. The majority of the graduate respondents disagreed that the skills and experience in training prepare graduates ready for the labor market. This study was guided by one research objective, to determine the relevance of TVET education in preparing graduates for the labor market.

Keywords: TVET Institutions, Labour Market, Engineering Departments, Relevant TVET Programs

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52 Role of Swamji Vethathiri maharishi's acupressure 14 points exercise therapy in the effective management and wellness of hypertriglyceridemia to a near-normal level found on a 59-year-old male teacher

Paper ID V7I6-1304 · Pages 236-244 · Yoga

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We reported a 59-year-old male school teacher with a history of higher-level Triglyceride (295mg/dL) (Hypertriglyceridemia) associated with vertigo problems and a significant reduction in the higher Triglyceride levels to a near-normal level (140mg/dL) and a total recovery from vertigo problems through a regular practice of Acupressure 14 points exercise therapy, designed by Swamiji Vethathiri Maharishi, a South Indian born Saint and Savant (1911-2006) was followed. Acupressure 14 points exercise therapy was practiced by the teacher for nearly six month's duration Unintermittently and that too 3 times per day at an interval of four hours duration. This resulted in a complete recovery from the agonizing vertigo problems and a significant reduction to a near-normal triglyceride level. Acupressure 14 points exercise therapy designed by Swamiji Vethathiri Maharishi is a legacy delivered by him to the welfare of mankind It can be very well said that this Acupressure 14 points exercise therapy is a non-pharmacological, complementary alternative medicine (CAM) which is very safe to use, involves no side effects and, very inexpensive therapy.

Keywords: Swamiji Vethathiri Maharishi, Acupressure 14 Points Exercise Therapy, Complimentary Alternative Medicine, Hypertriglyceridemia, Vertigo

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53 Study of 5G network slicing

Paper ID V7I6-1305 · Pages 245-251 · Wireless Communication

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Network operators deploy currently the 5th generation (5G) of the cellular network and many manufacturers commercialize new 5G end-user devices. It is the first step in the development of 5G still the 5G potential is far from being reached. Network slicing is one of the main 5G technologies for the researcher's community. Many heterogeneous services like voice communication, video streaming, e-health, vehicular communication are provided and flexibly by exploiting the 5G infrastructure. Security is a critical aspect like every new technology. In this paper, security in 5G network slicing is highlighted life-cycle security, intra-slice security, and inter-slice security along with threats and recommendations are highlighted in this paper.

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Keywords: 5G, Network Slicing, Security

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54 Skin diseases analysis using a Machine Learning approach

Paper ID V7I6-1310 · Pages 252-254 · Aiml

Neeraj Radhakrishnan Pillai, Student, Independent Researcher

Dermatological illnesses are caused by flaws in the skin's components or layers. It has targeted individuals of various ages, genders, races, socioeconomic statuses, and backgrounds. When health priorities are established, skin disorders are often seen as minor players compared to the worldwide league of illnesses that cause significant mortality, such as HIV/AIDS, community-acquired pneumonia, and TB. On the other hand, skin issues are among the most often seen illnesses in tropical primary care settings (such as India). In this work, I want to eradicate the practice of overlooking minor skin deformities as they may be the symptoms of something severe. Because ignoring a small red inflation spot on your chin may be okay, as it may be Acne, which does - practically- no harm to your body, but ignoring an ununiform black mole may be the biggest mistake of your life as there is a significant possibility that it may be the cause of Melanoma- the most severe type of skin cancer. This work gives the overall review of skin issues by predicting them using the machine learning (ML) approach.

Keywords: Skin Diseases, Cancer, Human Body, ML

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55 Book-Kart

Paper ID V7I6-1311 · Pages 255-258 · Computer Science Engineering

S. Aashritha Reddy, Student, Independent Researcher

The project can be defined clearly as the pre-booking or registering to get a book from the library without any delay. The user will register for the required book he/she needs from the library. Initially, the user will sign up for the application; if he/she is already having an account then they can directly login into the application. A home page will be displayed initially which shows the branches available in the college. After selecting the branch, it displays the semesters of the students and the student selects the semester. After selecting the semester, we display all the subjects that are present in that semester. Each subject will have its own reference books along with the availability in the library. The student selects the reference book and registers to take the book. After adding it to the cart the final step is displaying the submission date and an ID for the book is generated by which the student can easily acquire a book from the library using it. If the student doesn’t return the book on time or before the submission date the fine starts calculating for the book as usual as the regular method followed in the library. An alert message will be sent to the student about the fine calculation.

Keywords: College Library, Students, Faculty, Admin

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56 Breast cancer detection using a Machine Learning algorithm

Paper ID V7I6-1312 · Pages 259-262 · Computer Science And Engineering

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Breast Cancer is the most customarily recognized cancer amongst ladies and fundamental purpose for the growing mortality rate amongst ladies. As the analysis of this sickness manually takes long hours and the lesser availability of systems, there's a want to broaden the automated analysis gadget for early detection of most cancers. Data mining techniques contribute a lot to the development of such a system. To classify benign and malignant tumors, we have used classification techniques of machine learning within which the machine is learned from past knowledge and might predict the class of recent input. There are many Classification techniques used to predict breast cancer, several of which can be Support Vector Machine (SVM), Decision Tree (C4.5), Naive Bayes (NB), k Nearest Neighbors (k-NN), and random forest. This paper is a comparative study on implementing a model using a Support Vector Machine (SVM). These techniques are coded in python and executed in a jupyter notebook, the Scientific Python Development Environment. Our experiments have proven that support vector machine(SVM) is exceptional for predictive evaluation with an accuracy of 96.4%.

Keywords: Classification, Accuracy, Support Vector Machine(SVM).

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57 Lean Thinking approach to improving the performance of an automobile service industry

Paper ID V7I6-1330 · Pages 263-269 · Mechanical Engineering

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The study's goal is to discover problems in a car service facility and come up with the best remedies to improve overall performance. The research's specific goals are to: increase productivity using Lean strategy; reduce wastage and non-value added activities; create a simple and easy work environment; develop a 5S Auditing control system to maintain the improved process; and educate Janitorial level people about the benefits of using Lean strategy. The findings of this study are based on a single case study conducted in a company that used the Lean PDCA (Plan-Do-Check-Act) strategy, the 5S tool, and its applications to improve productivity. At various phases of the investigation, the main causes for the problem in automobile servicing were found using data-based analysis. The process parameters have been tuned and monitored to ensure the method's long-term viability.As a result of its lean strategy, the quantity of energy and non-value added activities involved with its manufacturing processes were decreased. In addition, research led to the establishment of a visual

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workplace, which has improved the production environment, as well as a clear and straightforward process design to build the groundwork for a future of continual improvement. The output of the business would grow by 15 automobiles each day as a consequence of this research, which would be a significant achievement. The study gives companies advice on the application and significance of quality ideas. To survive, instigation must work consistently on development-oriented activities, regardless of how these activities are character. The findings will also serve as a foundation for future study in this field, with an emphasis on practical application of these notions..

Keywords: Automobile Service Industry, Lean Thinking, PDCA, 5S

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58 Survey paper on hospital management system

Paper ID V7I6-1316 · Pages 270-272 · Information Technology

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Hospital Management System provides the benefits of streamlined operations, enhanced system, control, patient care, cost control, and improved profitability. HMS is easy to use and is designed and developed to deliver real conceivable benefits to hospitals. The project “Hospital Management System” uses JAVA as the front-end software which is Object-Oriented Programming and has connectivity with MySQL. All the required modules and features have been particularly built to just fit the requirements. The entire architecture is Desktop based and built using the latest technologies. It covers all the required modules right from Patient Registration, Medical details, Doctor, Patient appointment, Bill, Record modification, etc. The human body is a very complex and sophisticated structure and comprises millions of functions. All these complicated functions have been understood by the man himself, part-by-part their research and experiments. As science & technology progressed, medicines became an integral part of the research. Gradually, medical science became an entirely new branch of study & research. As of now, the Health Sector comprises Medical institutions i.e. Hospitals, clinics, etc. Thus the Health sector aims at providing the best medical facilities to the common man.

Keywords: Object-Oriented, Enhanced, JAVA, MySQL, Medical, Technology, Patients, Health Sector

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59 Effect of Personality Traits on the Effect of Movie Genres on Mood

Paper ID V7I6-1314 · Pages 273-282 · Psychology

Sachi Saraf, Student, NMIMS, Jyoti Dalal School of Liberal Arts, Mumbai, Maharashtra

The current study aims to analyse the effect of personality traits on the impact that different genres of movies have on an individual. The two genres being considered for this purpose are comedy and horror. The personality traits, as defined by Five-factor Model, will be measured using the Ten-Item Personality Inventory

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(TIPI), and the Profile of Mood States (POMS) will be used to measure the change in mood states caused by the video intervention (short film). The hypothesis for the current research states that individuals low on Emotional Stability and high on openness to experience are likely to have a more alleviated mood on watching the short film of horror genre; and individuals higher on extraversion and lower on neuroticism are likely to find the comedy short film to be more uplifting for their mood as compared to those with lower extraversion and higher neuroticism.

Keywords: genre, mood-states, personality traits, preferences, media

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60 Review paper on chitosan and its applications

Paper ID V7I6-1347 · Pages 283-289 · Phamacy

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Chitosan is a hydrophilic biopolymer, which is obtained industrially by hydrolyzing the amino-acetyl group of chitin. It is a natural, non-toxic, biodegradable polysaccharide available as solution, flake, fine powder, bead, and fiber.

Keywords: Chitosan, Chitin, Deacetylation, Biopolymer, Polysaccharide

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61 Automating donorschoose.org application screening and building recommendation system using NLP, ensemble methods, and Deep Learning

Paper ID V7I6-1345 · Pages 290-294 · Computer Science

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This paper aims to focus on building a solution for a non-profit organization in automating a task that currently requires a lot of manual effort and is, therefore, time-consuming. We intend to solve this problem with the help of Artificial Intelligence - Natural Language Processing and Deep Learning.

Keywords: Artificial Intelligence, Machine Learning, Deep Learning, Random Forest Classifier, Neural Network, Natural Language Processing, Donors Choose, Application Screening

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62 Review of recent finding thermal performance of screw air compressor with dryer

Paper ID V7I6-1341 · Pages 295-300 · Thermal

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The Screw compressor is a mechanical device that is used to increase the pressure from lower to a higher level. It is used in process industries where the super dry compressed Air is required, for various utilities just like packaging, transporting of product. The screw compressor is a positive displacement type rotary compressor that is working under screw action and emerged with a desiccant adsorption dryer for removal of moisture from compressed humid Air. This combination of systems is studied under the various published literature paper show that moisture is removal under using by means of chemical substance like activated alumina, silica gel and molecular sieves of compressed Air and may Save the purge loss in the dryer by using reusing compressed Air by heated blower to show that it can be enhancement of efficiency of screw compressor. In screw compressor has no fluctuation on delivering compressed Air with desiccant adsorption dryer by means of rotary action with the male and female rotor. The investigation of the published paper has to summarize the performance of compressed dry Air which is utilizing the super dry Air in the pharma utility sector and various industries. The dew point has the main parameter for acquiring the humid compressed Air to dry compressed air by means of the at dew point lowest for easy condensation of compressed Air of the system. In this system, the Adsorption Air dryer which is installed with a Screw Air compressor has high performance in captured of moisture in the compressed Air system by using the blower and heater.

Keywords: Zero Purge Loss, Desiccant Bed, Compression System, Pressure Drop, Silica Gel, Regeneration, Adsorption Process, Desorption

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63 Pregnant and Postpartum Women Stress During COVID 19

Paper ID V7I6-1325 · Pages 301-302 · Psychology

Tanve Tushar Joshi, Independent Researcher, BetterUp

During this pandemic period, a lot of people were affected globally and most especially vulnerable groups like pregnant and postpartum women. There has been a report of high elevated post-traumatic stress, nervousness, and depression since the outbreak of the COVID-19 pandemic. In a global survey, postpartum and pregnant women have accounts of increased anxiety, depression, and stress. High levels of all these combinations could negatively affect the foetus growth and women's health. These unique difficulties have been a focus of concern to most medical practitioners, although no research has explored other factors associated with increased stress and depression. This current research aims to assess the persistence and causes of increased postpartum during the pandemic.

Keywords: Pregnancy, Postpartum, Stress, Depression, Pandemic, COVID 19

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64 Effects of Birth Order on an Individual's Self-Efficacy and Life-Satisfaction

Paper ID V7I6-1315 · Pages 303-331 · Psychology

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This research paper aimed to study the effects of birth order on an individual's self-efficacy and life-satisfaction, within the age group of 16-30 years. Sherer's Self-Efficacy scale was used to measure self-efficacy levels in participants and the Satisfaction with Life Scale was used to measure the levels of life-satisfaction. The purpose of this paper was to study the difference in scores on these two scales with respect to the four birth order positions considered, namely – first- born, middle-born, last-born and only child. It was found that first borns show a slightly higher level of self-efficacy, when compared with the other birth order positions. In terms of life- satisfaction, last-borns were found to score higher than the other birth order positions.

Keywords: Birth Order, Self-Efficacy, Life Satisfaction

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65 The motion of weak cylindrical shock wave in a highly viscous medium

Paper ID V7I6-1317 · Pages 332-335 · Fluid Mechanics

Dr. Kamlesh Kumar, Associate Professor, Agra College, Agra, Uttar Pradesh

The interaction of shock waves with viscosity is one of the central problems in the supersonic regime of compressible fluid flow. The motion of weak shock waves in a highly viscous medium has been investigated by Chester-Chisnell- Whitham method. It is found that the shock velocity and shock strength both decrease as shock advances for the low viscous region of a medium to the high viscous region. The dependence of Mach number on propagation distance, Pressure, Particle velocity, and shock velocity as well as on adiabatic index has also been analyzed for the cases. In the last comparison between the results obtained here are made mutually as well as with those obtained by other methods. The obtained expansions are computed and discussed through tables and graphs.

Keywords: Shock Wave, CCW Method, and Viscosity

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66 Design optimization and development of energy efficient induction motor for industrial applications

Paper ID V7I6-1371 · Pages 336-341 · Induction Motor Optimization

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This paper In this project, A detailed analysis of the energy efficiency of the industrial motors has been presented, The energy efficiency of industrial motors has been thoroughly examined. Energy-efficient motor

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designs offer higher operating efficiency than standard designs, according to varying the motor design parameters presented in this project

Keywords: Optimization of Induction Motor, Energy Efficiency, Motor-Cad Software, Air Gap Length, Core Length, Losses.

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67 Medication beyond the 3 states of matter in healthcare

Paper ID V7I6-1349 · Pages 342-345 · Pharmaceutical

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Plasma, the fourth state of matter, is slowly making its way into the pharmaceutical business and medicine. It's already being used in a variety of applications, including causing apoptosis, necrosis, and cell detachment, as well as in the form of CAP (cold atmospheric plasma) and Jett plasma (used for skincare). It is unquestionably regarded as a major and potentially useful tool in the future of medicine. Plasma is essentially an ionized gas, and the plasma sources employed in plasma medicine are mainly ‘low temperature' plasma sources that operate at atmospheric pressure. It eliminates reactive species and can be used on cells and tissues without causing heat damage. It eliminates reactive species and can be used on cells and tissues without causing heat damage. Low temperature is defined here as room temperature, with a tight upper limit of 50 degrees Celsius. The overall goal of this article is to provide an understanding of how much plasma that has been ionized gas can be used to cure a variety of diseases and pathological situations with minimal adverse effects. Also, to provide information about its development history, current use, and prospective future. To raise awareness that this is being thoroughly examined by research groups all over the world as part of the extremely interdisciplinary subject of 'plasma medicine.

Keywords: Plasma, Cold Atmospheric Plasma, Ionized Gas, Anti-Tumour, Glucose Uptake

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68 Micro Small and Medium Enterprises

Paper ID V7I6-1306 · Pages 346-350 · Finance

Ananmey Aggarwal, Research Scholar, Independent Researcher

The paper suggests that recent market reforms and government interventions have helped enterprises beat the competition which has consequently helped India with its economic growth, high foreign investment, reduced inflation, higher employment opportunities.

Keywords: MSME, COVID 19, Government, GDP Growth, MSME Cluster, Aatma Nirbhar Bharat, Reserve Bank of India.

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69 Analysis and design of R.C.C. and composite structures with Steel Beam

Paper ID V7I6-1374 · Pages 351-355 · Engineering

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Structural engineers are facing the challenge of striving for the most efficient and economical design solutions while ensuring the final design of a building to be serviceable for its intended function, habitable for its occupants, and safe over its design lifetime. As our country is the fastest-growing country across the globe and needs shelter with higher land costs in major cities where further horizontal expansion is not much possible due to space shortage, we are left with the solution of vertical expansion. Steel-concrete composite construction has gained wide acceptance worldwide as an alternative to pure steel and pure concrete construction. Reinforced concrete members are used in the framing system for most of the buildings since this is the most convenient and economic system for low-rise buildings. However, for medium to high-rise buildings, this type of structure is no longer economical because of increased dead load, less stiffness, span restriction, and hazardous formwork. A steel-concrete composite frame system can provide an effective and economic solution to most of these problems in medium to high rise buildings. An attempt has been made in this study to explore the cost-effectiveness of composite construction. The study concludes that composite structures can be best suited as compared Reinforced Concrete Structures

Keywords: R.C.C., Steel, Composite, Analysis, and Design

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70 Treatment and reclamation of wastewater

Paper ID V7I6-1376 · Pages 356-362 · Environmental Science

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Water is an indispensable resource and crucial to sustaining life. Water scarcity is one of the largest threats all

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over the world. The growing population, rapid industrialization as well urbanization discharges wastewater. The wastewater presents various pollutants like biological agents, heavy metals, dyes, phenols, pesticides as well as dissolved or non-dissolved chemicals. Wastewater treatment is one of the most important solutions to reuse the water. The wastewater consists of physical, chemical, and biological characteristics. Several parameters are involved to check water quality. The three distinct types of water quality parameters like physical, chemical as well as biological parameters. Several physicochemical methods and technologies are recently used in wastewater treatment. The treatment of wastewater protects human health and reduces the amount of waste that is generally released into the environment and improves environmental health. Wastewater is one of the most essential reliable sources of irrigation water for several farmers. The most general sources of marginal quality water are Agricultural drainage water, Municipal and Industrial wastewater as well as shallow groundwater. Wastewater reclamation and reuse are imperative for the future. The important role of wastewater reclamation is saving the sustainable environment. The reclaimed water is used for various purposes like irrigation, gardening, cooling system, toilet flushing, cooling of air conditioning system, and several other uses.

Keywords: Wastewater, Water Treatment, Reclamation of Water

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71 Investment Banking – An Indian Economy Overview

Paper ID V7I6-1377 · Pages 363-372 · Economics And Business Management

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An Investment banker acts as an intermediary between the issuers and the ultimate purchasers of securities in the primary securities market. An Investment bank is an organization, maybe bank, corporate body, firm, or proprietary concern. Investment banks offer a plethora of services to their corporate clients such as guidance in raising capital, issue management services, underwriting of corporate securities, project feasibility, corporate restructuring strategies, and other advisory services. They provide scientific portfolio management to individual investors by maximizing the yield and minimizing the risk along with other objectives like the stability of income, capital growth, liquidity, safety, tax incentives, etc. Investment Banking adopts the new developments and innovations in the global financial markets. Investment Banking indeed helps individuals, corporates, and the government as a whole.

Keywords: Vertical Integration, SEBI (Securities Exchange Board of India), Subprime Crisis, Foreign Direct Investment (FDI), Mortgage, Underwriting, Portfolio Management, Capital Markets, Code of Conduct, Mergers and Acquisition, IPO (Initial Public Offer), Asset Management, Venture Capital, Money Markets, International Financial System

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72 The impact of nuclear energy on the environment

Paper ID V7I6-1364 · Pages 373-379 · Nuclear Energy

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In recent decades, the demand for energy for economic growth has increased and available resources,

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especially fossil fuels, have fallen sharply. The indiscriminate and increasing use of various energy vehicles such as oil, gas, and coal has drawn the attention of countries to two important problems, namely the depletion of fossil fuels and environmental pollution. Therefore, one of the most important priorities of energy policy is to diversify energy sources and also to find a safe, cheap, and emission-free energy source. Nuclear energy is therefore important. In this regard, the main purpose of this article is to investigate the impact of nuclear energy consumption on the quality of the environment in a group of selected countries. The present research is library research in terms of purpose, a causal study in terms of research method, and in terms of research method and nature and method of approaching the inferential problem. The results of estimating the model using the fixed effects method in the group of selected countries in the period 2004-2014 show that nuclear energy consumption has a negative and significant effect on CO2 emissions as an indicator of environmental quality.

Keywords: Nuclear Energy, Plant, Environment, Human, Nuclear Pollution

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73 Secure result processing system amid COVID-19 and beyond using digital signature

Paper ID V7I6-1229 · Pages 380-387 · Computer Science

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Digital workflow of results from the department where results are generated, to the processing unit, and finally to the students or any other units where results are needed is highly recommended more especially in this era of technological revolution and COVID-19 epidemics. Besides, a couple of drawbacks is usually associated with paper-based result processing. These drawbacks included but were not limited to high overhead cost, high fraud risk, document misplacement, degradation of the document after multiple printing, and delay in result processing. However, online result processing cannot be exonerated from fraud such as cyber-related fraud. Cybercrimes are increasing on daily basis with more concern in developing countries and as such, every online business or transaction should be defended against malicious attacks and unnecessary alterations. Considering the critical and confidential nature of results vis-à-vis the menace associated with cybercrime, this paper suggests the application of digital signature in online result processing to ensure the authentication of the sender, integrity of data, and non-repudiation. The use of the digital signature technique as a security measure in online result processing will promote trust and acceptability of results and other related information. This paper carried out an overview of cybercrime, introduced the concept, framework, and application of digital signature in online result processing.

Keywords: Result Processing, Cyber Attack, COVID-19, Digital Workflow, Digital Signature

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74 Sustainable urban transport to reduce congestion and pollution

Paper ID V7I6-1239 · Pages 388-396 · Environmental Science

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The paper titled "sustainable urban transport to reduce congestion and pollution" provides an analysis of the non-motorized transport landscape in India using Bangalore as a case study to highlight the gaps, and suggest policies and budgetary allocations to promote the adoption of NMT in cities across the country.

Keywords: Non-motorized Transport, Sustainable Urban Transport, Policy, and Budgetary Allocation Suggestions, India, NMT Policy Scheme In Bangalore, International Policies

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75 Simulation and analysis of Grid-connected PV System

Paper ID V7I6-1380 · Pages 397-400 · Power Electronics Converters For Renewable Energy Sources

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Now in recent years, the demand for electricity increased day by day. So we need to produce more and more energy to produce electricity. Conventional energy sources like diesel, petrol, gas are finished day by day. So the requirement for nonconventional energy sources is increased. Nonconventional energy sources like wind, solar, hydro, etc. are available from nature. In this paper, we discussed producing electricity from solar energy. This solar energy is related to a grid-connected system and produces electricity based on the photovoltaic system. Matlab simulation of grid-connected PV simulation is also given and produces appropriate results according to requirement. This produce electricity is used for domestic and industrial loads.

Keywords: Photovoltaic System, Boost Converter, MPPT, Inverter, etc.

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76 Panspermia

Paper ID V7I6-1381 · Pages 401-403 · Astrobiology

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Mankind has been trying to seek the answers to the questions like. 'Who are we?' 'From where we have originated?' ' How life first came on Earth?' 'Is there life somewhere else in the Universe?', and many more…! We are still trying to figure out that how we came into existence. We really don’t know where this journey is going to take us, but the quest that has started since time immemorial won’t stop. THE QUEST MUST GO ON…….

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Keywords: Origin of Life, Pansmermia, Jaxas Hayabusa Mission, Rosetta Mission, Astronomy, Biology, Astrobiology

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77 Artificial Intelligence in human resource recruitment

Paper ID V7I6-1390 · Pages 404-409 · Management

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The world is filled with technical advancement. In recent years, Artificial Intelligence has been a core component of every field ranging from medical, education, and whatnot. This paper is all about how AI can be used in the recruitment process. When someone is in need of a job, the interview is something that he/she has to go through. There is a different process of interview. Every company opts for different methods. But the common person and the common step in every interview process are the Human resource person and the personal interview step. HR is someone who plays a vital role in a company. Finding the right man for the right position is essential. And that's a very tedious part too. Although there have been many technological developments in the world, the interview scheduling process is something the same that has been followed for ages. So, we thought of bringing a change in the process. How about AI substitutes labor in the interview process? It is sure that it is not possible completely. But still, it can be adopted in certain areas like application screening and in some more places. In this paper, we have told the possible areas of adopting Artificial intelligence so that the labor and time of HR are cut short and it can be utilized in some more productive areas.

Keywords: Artificial Intelligence, Human Resource, Interview

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78 A comparative study of the usefulness of ICT in open and distance learning and conventional mode of the education system

Paper ID V7I6-1379 · Pages 410-412 · Humanities

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Open and Distance Education is considered a significant medium for sustainable development in the information age of advanced learning. Assam, which is considered as the case study for this article, is facing the challenges of knowledge and information upgrading. In order to meet the demand of globalization for sustainable development, the government established the IGNOU by an act of Parliament at the National level. This article explores the implementation of ICT to the development of distance education. There is a need for the development model of education that provides for quality education and offers the possibility of sustainable development to learners and society as a whole.

Keywords: Distance Education, IGNOU, ICT

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79 Realizing quality assurance for product reliability – A case study of MSMEs of Ballari

Paper ID V7I6-1397 · Pages 413-415 · Management

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Quality assurance and control is the activity of providing the evidence needed to establish confidence among all concerned, that the quality-related activities are being performed effectively. Many quality assurance and control activities provide protection against quality problems through early warnings of troubles ahead It establishes a system of policies, procedures, and guidelines that establishes and maintains specified standards of product quality. One of the crucial determent in the successful implementation of TQM is Quality assurance. MSMEs play a critical role in the economic development of a country. Quality management of these MSMEs is would be critical for their stability. The aim of the paper is to examine the level of Quality assurance against product reliability at MSMEs of Ballari, Karnataka. The universe comprised executive and a non-executive workforce of the firm. Sampling was carried out using a convenient sampling technique with a sample size of 50 in line with the Cochran formula. Data was collected using observation and informal interview methods. Descriptive statistics and the Chi-square test was used to analyze the data. The research envisaged that all the factors of Quality assurance are associated with product reliability at the MSMEs. The study revealed that the quality manual and job instruction manual at the MSMEs has a significant influence on product reliability.

Keywords: Quality Assurance, Factors Of Quality Assurance, Product Reliability

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80 Peltophorumpterocarpum – Its ethnobotanical knowledge, phytochemical studies, pharmacological aspects, and future prospects

Paper ID V7I6-1395 · Pages 416-424 · Plant Sciences

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The present study offers a review stating the detailed findings related to pharmacological and phytochemicals of Peltophorumpterocarpum. Peltophorum, a tropical genus containing eight species, belongs to the legume family (Fabaceae), subfamily Caesalpinioideae. It is considered one of the significant plant species. Traditionally it was used to treat skin-related problems, insomnia, as a various ointment,s and as a pain killer. It is a source of any kind of chemical constituents like steroids, alkaloids, phenolics, terpenoids, flavonoids, fatty acids, and alcohol. Studies have found that extracts of P. pterocarpum exhibit biological activities like antioxidant, antimicrobial, antidiabetic, analgesic, anti-inflammatory, anticancer, also a cure of neurodegenerative disease.

Keywords: Peltophorum Pterocarpum, Antioxidant Activity, Anti Inflammatory Activity

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81 Digitization of real-time systems as home

Paper ID V7I6-1398 · Pages 425-427 · Computer Engineering

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Digitization of Real-Time Systems as Home is an Automation System in which we control the home's electrical components digitally. In this project, we developed an application as a digital platform for controlling the system. And the availability of the system will be ensured by the use of the Internet. Our System helps users to access their home appliances easily and safely without any change in the existing system in their home. So that without changing the actual components of the home, it's implemented by adding a digital interface between the user and home. General Home Automation consists of the replacement of each component with IoT devices. The availability of the control is limited to small-scale areas or local control areas. Replacement of each component results in an increment of investment which is very costly. The connection to the system requires the same network to operate. A home automation system controls lighting, temperature, multimedia systems, and appliances. Since these devices and sensors are connected to common infrastructure, they form the Internet of Things. A home automation system links multiple controllable devices to a centralized server.

Keywords: Home Automation, IoT, Raspberry Pi, Firebase, Electrical Appliances, Android App

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82 Application of ethanol-hydrogen based biofuel in the energy industry and its sustainable and economical utilization to world environment and international markets

Paper ID V7I6-1369 · Pages 428-433 · Chemical Engineering

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Bioethanol is the world's largest-produced alternative to petroleum-derived transportation fuels due to its compatibility with existing spark-ignition engines and its relatively modern and sustainable production techniques. A major breakthrough is yet to be seen in the energy industry where; renewable fuels would take over the energy industry, becoming the self-sufficient fuel of the future. It's Due to Bioethanol's low calorific value, the modern-day fuel hasn't reached its optimal potential yet. Hence producing sustainable blends would be the ideal solution to this hypothesis. The utilization of coffee grounds as a primary source of raw material would be extremely cost-effective since deriving bioethanol from such a source would only require manufacturing and operating costs. The study also notices the trend of the global economy shifting to using biofuels as a primary source of fuel such as the aviation industry aiming for a carbon-neutral economy by 2030 [4]. The blend of ethanol and Hydrogen would be the optimal fuel for the future. Hydrogen produces a net calorific value of 120 MJ/kg compared to Bioethanol's Calorific value of 18.2 MJ/kg [3]. Petrol generates approximately 40MJ/kg upon burning that making the blend of Hydrogen and Bioethanol an optimal, potential source of energy [3].

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Keywords: Bioethanol, Coffee, Hydrogen, Fuel Cell

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83 Scientifically who are you and scientifically why all living beings are one

Paper ID V7I6-1401 · Pages 434-435 · Science

Nishanth Mehanathan, Independent Researcher

A paper which answers the question, who are you ? and Why all living beings are 1.

Keywords: Why one world, who are you, why Ahimsa

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84 The glory of traditional terracotta temple town “Bishnupur”

Paper ID V7I6-1313 · Pages 436-439 · Indian Traditional Art & Architecture

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The temple town “Bishnupur” is one of the oldest famous and very important places in West Bengal, India. The popular town is located in the Bankura district. It is culturally, artistically, and historically interesting and large enough to be noticed because of the Terracotta Temple. There are especially few Terracotta temples, which are very much fascinating with their decorative ornamentation style of monumental architecture. As historians have been noticed these temples were built by the Malla Dynasty. The Malla rulers were the believer and followers of Lord Vishnu, so they built many iconic monumental temples in this area. Due to this the temple town was famous with the name of “Bishnupur”. During the construction of temples, the artisans opted for local material like Terracotta and plaques which is available easily in the surrounded area. Particularly terracotta plaques fixed on temples comprise valuable elements for reconstructing the mythological, historical and socio-cultural heritage. The decorative temples have been made based on Mythological stories. Those fixed Terracotta plaques on the temples always remind and convey the stories of Ramayana and Mahabharata. The iconic monumental architectural temples have incredible vibes and it gives the impression of those earlier artisans who have sculpted are respected today. The style of architecture and the ornamentation of the temples of this area reveals the aristocracy of the artisan. The temple town is famous all around the world which fascinates the tourists to visit and enjoy the charm and beauty of this monumental terracotta temple. It also has different verity temples in numbers. If we start to differentiate the architecture of the terracotta temple of Radh Bengal, it has four categories like Chala, Ratna, Deul, and Dalan (Roy, 1998: 57). This area has a high value in the archeological survey, in our society as well as the Indian cultural heritage. In this paper, the subjects would be presented about the style, types, decorative motifs, and themes of the terracotta temples of the Bishnupur area.

Keywords: Terracotta, Plaque, Temple Architecture, Decorative Motifs & Heritage

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85 24 social networking platform

Paper ID V7I6-1400 · Pages 440-443 · Computer Engineering

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Social media has connected many of the users in the world together. By the end of 2015, we already had billions of users connected. And some predict that by 2020, the number of Social media users will reach or even exceed 50 billion. Connecting application is an integration of social networking and E-commerce. It majorly focuses on the social network growth and their development where the users in the world can show their talent in the form of art, dance, singing, photography, etc. to the relevant customer population by the means of our application and online transactional procedure. 24 Platform is built on React.js, Firebase database using VS Code, and Node.js and npm for the structural and design part of the main application. The content from users they have followed will be visible in the following tab and categories they have followed will be visible in the feed tab. Companies are increasingly using online communities to create value for the firm and its customers. Ensuring that brand activity is relevant to a social network's core audience is crucial for advertisers wanting to tap into niche communities It is a concept derived from the drawbacks of different applications with the motive to combine their respective functions. This Application will serve them as a good place to share good work and a place where their work will be appreciated by the people.

Keywords: Social Media, Social Network, Internet, Connectivity, Android App, Firebase

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86 Electronic clothing development using boost converter circuit and GPS-GSM module using Arduino

Paper ID V7I6-1419 · Pages 444-447 · Electronics And Embedded Systems

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Despite constant research and development of safety technologies for women, most novel technologies lack affordability and effectiveness. In our research, we investigated the existing technologies and developed an electronic jacket equipped with electric nodes which protect the victim by electrocuting the assailant. External help plays a key role in victim recovery and protection and hence our model also notifies the registered contacts, when the victim is attacked. The results support that the jacket can effectively shock the assailant by incorporating a boost converter circuit and sending notifications when the system is initialized by the victim.

Keywords: Arduino Nano, GPS, GSM, Boost Converter, Women's Safety

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87 Comparative analysis of various Machine learning algorithms for prediction of heart attack

Paper ID V7I6-1405 · Pages 448-451 · Computer Science Engineering

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In recent times an unhealthy lifestyle has led to rising in various heart conditions. Lots of people are losing their lives because of this. It would be really great to have the technology or a system that can collect data and predict and monitor heart conditions. So that person's life can be saved before it's too late. Accurate heart condition predictions are not an easy task. Data Science and AI can play a huge and crucial role in processing huge amounts of healthcare data. There are various machine learning algorithms available to process and predict the result. It is very important to choose the right algorithm so that the task can be performed efficiently. This ‘Seminar Work’ makes use of a heart dataset available in the UCI machine learning repository. The proposed work aims to predict the chance of heart attack and classifies patients' risk levels. We have implemented various machine learning algorithms such as Decision Tree, Logistic Regression, Random Forest, Naive Bayes. In this report, we have comparatively studied and analyzed the above algorithms. We compared the performance for all of them and tried to choose the best-suited algorithms for our task. The results of our test concluded that Random forest is the best-suited algorithm for our task. It has achieved the highest accuracy of 90.16% compared to other machine learning algorithms.

Keywords: Heart Attack, Heart Disease, Machine Learning, Heart Disease Prediction, Knn, Decision Tree, Random Forest, Naive Bayes, Logistic Regression.

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88 Design Development and Testing of an Automatic Desktop Injection Molding Machine

Paper ID V7I6-1417 · Pages 452-455 · Engineering

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The paper is focused on the design and manufacturing of a low-cost desktop Injection Molding machine. The design of mechanical elements of the injection Molding machines is discussed. The volume of the barrel with and without injection screw is also discussed. The heating system i.e. Heaters and thermocouples coupled with PID controller is also discussed. The flow rate of ABS, PLA, and PVC plastic materials has been found at a constant temperature and different temperatures for constant flow and with different RPM of the screw are also discussed.

Keywords: DIMM, PLA, ABS, PP, Arduino, Flow Rate, Catia v5r21

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89 Blockchain NFTs

Paper ID V7I6-1426 · Pages 456-458 · Information Technology

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Here we are going to discuss Blockchain non-fungible tokens, which is a unique and non-interchangeable unit of data stored on a blockchain, a form of digital ledger. In today's world NFTs are giving more power to content creators than ever before. The phenomenal rise of cryptocurrency has opened up an era of possibilities. And NFTs, or non-fungible tokens, are riding on the age of this new technology. From art to music and pixelated images to toilet paper, these digital assets are selling like the proverbial hotcakes, some of them for millions of dollars. Thereby, we demonstrate the usefulness of NFTs to tokenize digital goods, prevent fraud and improve control over secondary market transactions.

Keywords: Blockchains, Digital Tokens, Digital Assets, Smart-Contracts

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90 Detecting and preventing cyberbullying comments on social media using Deep Learning

Paper ID V7I6-1422 · Pages 459-462 · Computer Science And Engineering

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Increasing social media sites attract the attention of all people. We can utilize its benefits effectively for good things. But few people don't use these sites in the right way. Hating comments, spreading rumors, blackmailing using social sites have been increased. Much research is involved in solving these problems by employing machine learning and deep learning algorithms. The most existing solution is detecting cyberbullying, but facing difficulties in analyzing the short texts. Blocking the user who cyberbullying is also not possible. This paper proposes a detailed review of the machine and deep learning approach for detecting, preventing cyberbullying, and blocking malicious users using Natural Language Processing technique (NLP) and deep learning algorithm named as Backpropagation neural network algorithm.

Keywords: Cyberbullying, Detection, Prevention, Blocking Malicious Users, Natural Language Process, Backpropagation

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91 Influence of water hardness on the use of hair care products in the sensory evaluation and physical properties of hair

Paper ID V7I6-1423 · Pages 463-469 · Water

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In this study, the effects of water hardness on the use of hair care products are analyzed on the basis of sensory assessments and physical characteristics of hair. The study is divided into sections into sensory attributes and physical properties to assist with a scientific analysis of the influence of water hardness on the use of hair care products. Sensory evaluation is conducted by a trained shampoo panel with 8-10 members. In order to carry out an objective assessment of sensory properties, physical measurement techniques are used that focus on quantifying the combing force of the hair. Three shampoo technologies (standard shampoo, polymer care technology, silicone technology) are applied on damaged hair and undamaged hair. This study shows that water hardness has a significant influence on the use of these three shampoo technologies. Water hardness has a significant effect on eight attributes of the shampoo panel: Perceived hair quantity, aqueous foam, rinsing time in seconds, ease of disentangling, combability, residual product, hair - dullness, lackluster, hair - softness. Silicone technology shows the best performance regarding water hardness.

Keywords: Water Hardness, Hair Care Products, Sensory Evaluation, Combing Force

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92 Knowledge, attitude, and practices regarding contraception among reproductive-age females of Mashobra, Himachal Pradesh

Paper ID V7I6-1425 · Pages 470-472 · Obstetrics & Gynecology

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Dr. Aabha Sharma, Resident, Junior Resident, Department of Obstetrics and Gynecology, Dr. Rajendra Prasad Government Medical College and Hospital, Tanda, Kangra, H.P. Himachal Pradesh

Objective To assess the knowledge, attitude, and practice of contraception among reproductive-age females of Mashobra Block. Materials and Methods A cross-sectional study was conducted during the month of December 2021 to evaluate the knowledge, attitude, and practice of contraception among 230 reproductive-age females visiting the outpatient department in Community Health Center Mashobra, Shimla. Descriptive statistics were used for data analysis. Results The study showed that 94.7% of the reproductive age females had heard about contraceptives, and 83.5% knew about the source of availability of contraceptives. 58% of females had gained information about family planning and contraception from health personnel, 27% from friends, 13% from media, and 1.7% from newspapers. 90males knew about male condoms, but only 50% had knowledge about contraceptive pills. Among the permanent methods, female sterilization was more widely known (56%) than male sterilization (28%). 78% of females thought that contraceptive use was beneficial, but 22% thought otherwise. Only 69% of females were presently using contraception or willing to use some contraceptive method in the future. The most common methods of contraception used by females of reproductive age were

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condoms (40%) by the male partner. Around 14% of females had undergone sterilization. Conclusion The study highlights the need for continuing education about sexuality and contraception. Health personnel, especially ASHA workers, have played a pivotal role in spreading awareness and can thus be used for motivating eligible couples to adopt family planning methods and use of contraception.

Keywords: Contraception, Family Planning

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93 The analysis of the sustainable food value chain via business model canvass techniques creates a scope of business opportunity.

Paper ID V7I6-1318 · Pages 473-479 · Sustainability

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The convergent innovation model has based on a linear approach to defining next-generation requirements which rely on science technology, innovation program, and full fill the requirement of three themes as the health of people, environment, and economy for the future, which build firms strategic vision, through developing a new product, new process, and practices in a novel way. Purpose: The current research describes the importance of convergent innovation technology, sustainable pulse value chain, and developed convergent innovation framework model and also establishes a potential mapping between convergent innovation with the sustainable pulse value chain and discussed the pioneering initiative of convergent pulse innovative programmer in Indian pulse processing firms. Design/ Methodology; The current research study is based on explorative method and descriptive method, and review literature based on primary data and secondary data. The convergent innovation technology related, from the field of science, technology which highlight evolution of convergent innovation technology get benefitted to all sectors, as well as the collaboration of convergent innovation with sustainable pulse value chain increases the efficiency of pulse processing firms and enhanced sustainable pulse value chain. Conclusion: The convergent innovation upgrade innovative technology and made expansion of business. It operates in multilevel and cross-sectoral collaborative platforms through pulse processing industries and introduced in the form of pulse innovative programs such as the Odessa pulse program, tata pulse initiative program, etc. which establish the link between villages and modern value chains. The research focused on the mapping of convergent innovation with a sustainable pulse value chain to generate benefits.

Keywords: Convergent, Innovation, Sustainability

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94 An empirical study of factors influencing online shopping behavior

Paper ID V7I6-1357 · Pages 480-486 · Digital Marketing

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Emerging of information technology in the world has brought a large change in the aspect of the market structure globally. Nowadays, consumers are exposed to several faster digital communication channels, wider networks, and new devices and their connectivity with marketers is growing every day and everywhere in the world. At the same time, the effects of the Internet on consumer purchase behavior and marketing practices is a major and challenging area of research. The study focuses on several influence factors which are important to online buying behaviors. Data were collected from 131 online shoppers with the prior shopping experience. The findings showed that trust, convenience, attitude and purchase intention have a significant impact on Tunisian consumers' online purchases. Improvements in the factors that influence consumers to shop online and working on factors that affect consumers to shop online will help marketers to gain a competitive edge over others.

Keywords: E-Marketing, Internet Shopping Behavior, Convenience, Attitude, Regression

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95 A case study in green building

Paper ID V7I6-1388 · Pages 487-492 · Civil Engineering

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Nowadays, sustainable development is a necessary and urgent trend for the global environment. Acting as one of the main parts of the economy. the construction industry also takes part responsibility for protecting the environment through buildings designed with low-impact on the environment. With the green building, there are many benefits to the environment and as the result; it's also good for humans working and living in life. India is experiencing incredible growth in the construction and real estate industry. This rise in the construction sector raises many issues related to the environment and sustainability. As per the economic policy forum, in its report mentioned that in India the energy consumption in buildings is for heating, ventilation and air Conditioner accounts for between 45% and 65% of total electricity consumption. Another study states that the construction sector of India emits about 22% of the total annual emission of CO2 which is very harmful to the environment. Soto handles the adverse situation a new and important concept is emerging in India that is Green Building. Energy efficiency is the key to achieving sustainability in green building. Lowering the energy consumption in construction is starting to become a significant improvement chance for many organizations.

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This research will identify the benefits of energy efficiency, explore the methods to apply efficient energy usage in green buildings and explore the obstacles in attaining energy efficiency in green buildings. Even though green buildings use a lesser amount of energy compared with usual buildings, energy efficiency is still hard to achieve, due to some barriers to putting into practice energy efficiency. This study will interview a property development company in Malaysia. After analysis, energy efficiency contributed two main benefits in the company such as reduced greenhouse gases emission and lower the air pollution problem, and energy saving. The company implemented electrical feeding and sensor system in the lighting system. passive design, and cross ventilation to achieve energy efficiency in their development projects. However, cost barriers, information barriers, and outdoor condition,s and climate barrier are the obstacles to attaining energy efficiency practices. Due to time constrain, this research was only able to interview one company. With the aim of getting more accurate results, should be interviewed more companies in future research because energy efficiency covers a wide area in the construction field.

Keywords: Green Building, Energy Efficiency

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96 Jaundice prediction using Machine Learning approach

Paper ID V7I6-1394 · Pages 493-495 · Machine Learning

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Jaundice occurs when the rise in the level of bilirubin causes the skin, mucus membrane, and white part of the eyes to appear yellowish. bilirubin is a reddish-yellow substance produced when red blood cells break down.it is excreted through the liver. the bilirubin level will rise up when an abnormally high level of red blood cells breaks down. Any person with liver disease develops jaundice (i.e) when the liver does metabolize bilirubin the way it’s supposed to do, jaundice is developed. Depending on the underlying cause of jaundice, treatment will be provided. If it is caused by viral hepatitis, it will recover on its own. If the cause is because of other infections, diagnosing will be the appropriate treatment. The objective of this work is to develop the most efficient model for any medical lab to predict jaundice. Any data containing relevant factors to jaundice can be used in this model. The standard dataset is collected containing the components age, gender, total bilirubin, direct bilirubin, total protein level, albumin, sgpt, sgot and etc. Principal component analysis and factor analysis are performed to identify the useful and important factors which help to determine jaundice. Supervised learning models such as random forest, decision tree, support vector machines, naive Bayes classifier, and other models are used to train the dataset to predict jaundice with better accuracy.

Keywords: Bilirubin, Jaundice, Prediction, Supervised Learning, Predictive Analytics

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Volume 12, Issue 6 (November-December, 2026) is open for submissions. Last date: 31st December, 2026.

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