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SPECTRUM

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IJARIIT SPECTRUM

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 10, Issue 4 (July-August, 2024). This edition brings together 40 papers by 77 authors from 49 institutions. Each entry links to the abstract and the full paper.

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ABSTRACTS

1 Challenges Faced by Women in Corporate Leadership Positions

Paper ID V10I4-1138 · Pages 1-8 · Economics

Tarini Khemlani, Student, Perfect Communication , Gurgaon.

This research paper focuses on the diverse problems experienced by women in executive positions. Though women have made great strides towards gender equality, they still face several challenges like stereotypes, the gender pay gap, and the glass ceiling among others. Therefore, this paper aims to explore these incidences using interviews, surveys, and literature that already exists to ascertain if other barriers hinder women's progress within the commercial world and proposes steps that need to be taken to provide a more conducive atmosphere. The information gathered gives us insights into the fact that ongoing work is required to destroy gender assumptions and help women move up into official posts.

Keywords: Women, Challenges, Leadership, Corporate, Equality, Bias, Stereotypes, Glass Ceiling, Gender Pay Gap, Diversity, Inclusion

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2 Social Media and the Spread of Fake News

Paper ID V10I4-1151 · Pages 9-12 · Data Science

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The rise of the network of computers has admitted the rise of planks to some extent Facebook, Instagram, Twitter, and so forth alike. Today's people have handled the opportunity to connect and exchange numbers, considerably reconstructing value and development status. Social publishing acts as a form for storying comprehensive relations, assisting in work endeavors, making new friendships, and represent a telling release. Despite the advantages of public issuing, few things disregard allure potential, specifically concerning allure misuse. This study aims to delineate the factors that impact the utilization of friendly video as a revelation origin and judge because allure misuse in reaching telling and facts. Utilizing anything related to kinds not quantities research methods, the study executed all-encompassing interviews to draw appropriate file. The results signify that public revelation plays a main part as a telling beginning consequently allure fast classification ability. Furthermore, belongings are informed about latest trends companionable transmission misuse, containing the increase of fake disclosure and the history of parody characterizations

Keywords: Social, Radio, Abuse, Contrived Information, Parody Profiles, News Distribution.

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3 Robotics in Healthcare

Paper ID V10I4-1159 · Pages 13-17 · Healthcare

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Robots are instilled in health care to raise patient care, current times. They are used at any settings from hospitals to rehabilitation centers and even walking assistance. The paper talks about the developments that are happening in robotic technology within the health care sector, more specifically the field of research in care, hospitals, assistive devices, rehabilitation, and walking assisting robots. It also touches upon patients' views concerning the combination of AI and robotic systems in health care, especially through their experiences of hospitalization during the COVID-19 period. Knowledge of these perspectives is capable to guide in development of AI and robotic systems meeting citizens needs, as well as contribution to development of robots in healthcare.

Keywords: Robots, Healthcare, Rehabilitation, AI(Artificial Intelligence), Patient Care, Covid-19

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4 Advancements in Real-Time Object Detection with Deep Learning Models

Paper ID V10I4-1157 · Pages 18-23 · Object Detection

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B. Padmavathy, Assistant Professor, Sri Venkateswara College of Engineering, Bangalore
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Real-time object detection is crucial in computer vision, impacting domains like surveillance, autonomous vehicles, and augmented reality. Here, it integrates insights from seminal works—faster R-CNN, YOLOv3, Mask R-CNN, and SSD—to create a unified framework. Balancing speed and accuracy, we leverage Faster R-CNN's region proposal networks (RPNs) for precise localization. Inspired by YOLOv3's efficiency, our single-shot detection strategy ensures adaptability. Mask R-CNNs instance segmentation enhances scene comprehension, while SSDs streamlined architecture optimizes speed. This synthesis yields a framework redefining real-time object detection, pushing boundaries without compromising accuracy. In conclusion, this research underscores the transformative potential of real-time object detection, uniting cutting-edge models to innovate computer vision.

Keywords: Real-Time Object Detection, Deep Learning, Mask R-CNN, SSD, YOLOv3

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5 TikTok Under Scrutiny: Balancing National Security and User Privacy in Digital Age

Paper ID V10I4-1162 · Pages 24-27 · Law Of Privacy

Christianah Olawumi Akinyemi, Student, American University Washington College of Law, Washington, DC

This article aims to present a thorough study of the proposed TikTok ban in the U.S., examining the various factors that led to the proposal, its legal and regulatory framework, and its far-reaching effects. The purpose of the article is to provide readers with a fair and impartial analysis of the topic by stressing the threats to national security, the effects on users and content providers, the economic ramifications, and the wider political and diplomatic responses

Keywords: TikTok Ban, Privacy Issue in TikTok, U.S. Concerns About TikTok, Users Option Available for TikTok Users, Options Available For TikTok.

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6 Diversity of Plant Flora in Suttur Matt, Mysuru

Paper ID V10I4-1155 · Pages 28-35 · Taxonomy

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Plants play a critical role in the development of human civilization. Medicinal plants are considered as rich resources of ingredients which can be used in various drug discoveries. Suttur matt has a history of thousands of years. In this campus around 96 varieties of plants species belongs to 45 family, in which 30 herbs, 15 shrubs, 01 climbers, 50 trees, 01 pteridophytes and 04 gymnosperms were identified and documented by their botanical name, family, part used, habit and its uses. The study found that majority of the plants recorded from the campus are having high medicinal plants and one endangered species also noted.

Keywords: Medicinal Plants, Flora, Suttur Matt, Mysuru

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7 Exploring Women's Participation in Finance: Analyzing Trends in Investing, Stock Markets, and Gender Roles

Paper ID V10I4-1176 · Pages 36-41 · Finance

Kyna Aggarwal, Student, Heritage Xperiential School, Gurgaon

Over the past few years, Investing in the stock market has proven to be an effective method of securing a person's long-term financial needs. Parents often invest to ensure that their child's future financial needs such as education, health, living expenses, etc, are met. Studies have shown that Investing, along with other fields in finance, is prominently male-dominated. Due to lower levels of financial education and a more risk-averse outlook, Women tend to opt for more traditional income methods. However, the rate of women's participation in the stock market has steadily been increasing. Younger women who are highly educated & have independent streams of income have shown to take an interest in investing. Married women, as well, are participating more in the stock market, possibly due to future familial responsibilities. This paper delves into women's investment

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habits, the setbacks they face, and their reasons for choosing to or not to invest.

Keywords: Keywords: Finance, Women In Finance, Household Finances, Sexism, Investing, Stock Market, Investment Preferences

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8 The Impact of Artificial Intelligence on Decision-Making, Motivation, and Safety in Education

Paper ID V10I4-1173 · Pages 42-51 · Management

Dr.Kamma Ramanjaneyulu1, Associate Professor, Dr. K V Subba Reddy Institute of Management, Kurnool
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Abstract Artificial Intelligence (AI) is being more and more incorporated into educational institutions, providing the possibility of important changes in different aspects. This research studies the influence of artificial intelligence (AI) on decision-making, motivation, and safety in the academic sector. Artificial intelligence (AI) improves decision-making by offering insights based on data and personalized learning opportunities. However, it also raises concerns about the possible decline of critical thinking and human judgment. In addition, although AI tools have the potential to enhance student motivation by providing personalized learning routes and interactive information, there is a concern that they may promote reliance on technology and diminish intrinsic motivation. AI-powered surveillance and predictive analytics can greatly enhance the safety and welfare of pupils. However, it is important to weigh the advantages of these benefits against the need to protect privacy and ensure ethical usage. Gaining a comprehensive understanding of these effects is essential for educators, administrators, and policymakers toutilize the benefits of AI while minimizing its drawbacks. This will eventually promote a more efficient and secure educational setting.

Keywords: Artificial Intelligence (Ai), Education, Decision-Making, Motivation, Interactive Content, Monitoring Systems.

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9 Medical Waste Management in India: Trends, Regulations and Technological Innovations

Paper ID V10I4-1175 · Pages 52-55 · Waste Management

Niharika Gupta, Student, Perfect Communication, Gurgaon

Effective medical waste management is essential to mitigate environmental and public health risks. This study examines the evolution of medical waste management practices in India, highlighting historical trends, regulatory frameworks, technological advancements, and ongoing challenges. The research identifies a significant shift from rudimentary disposal methods to regulated practices, particularly following the Biomedical Waste (Management and Handling) Rules of 1998 and their 2016 amendments through literature review, policy analysis, and interviews with healthcare professionals. Despite these regulations, challenges such as inadequate infrastructure, insufficient training, and inconsistent compliance persist. Technological advancements like autoclaving and waste-to-energy processes offer promising improvements. The study

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underscores the necessity for stricter enforcement, enhanced training, and the integration of advanced technologies to overcome these challenges and advance sustainable healthcare practices.

Keywords: Medical Waste Management, Biomedical Waste, Environmental And Public Health, Healthcare Infrastructure in India

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10 Comparative Drying Study and Quality Evaluation of Cauliflower Leaf Powder

Paper ID V10I4-1178 · Pages 56-72 · Food Science & Technology

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Dr. R Renu, Assistant Professor, University College of Technology, Osmania University, Hyderabad

This study presents the comparative analysis of drying methods and quality evaluation of cauliflower leaf powder. The project focused on cauliflower leaves, often discarded as waste despite being highly nutritious. This project was aimed to assess the effectiveness of different drying techniques in preserving the quality attributes of cauliflower leaf powder for potential food and nutritional applications. Cauliflower leaves were dried using hot air oven drying and tray drying techniques. The quality parameters were evaluated for fresh and stored powder. The drying curves obtained from both methods revealed distinct drying behaviours, with the hot air oven exhibiting a higher initial drying rate, while the tray dryer achieved a shorter drying time i.e., 1hr 45min. The moisture content of the cauliflower leaf powder decreased significantly with drying time in both methods. Quality evaluation of the dried cauliflower leaf powder included analyses such as colour, moisture, ash, iron, calcium, vitamin C, microbe load. The fresh tray dried powder was high in moisture 4.725%, ash 14.6%, iron 15.23±5.491mg/100g, vitamin C 2.403mg/100g and hot air oven dried powder was high in calcium 40mg/100g. The stored tray dried powder was high in ash 13.8%, iron 9.369±5.98mg/100g, vitamin C 1.455mg/100g, whereas the 3 months stored hot air oven powder was high in moisture 9.831% and calcium 23.255mg/100g. The microbe load which was observed for 3 months indicated the microbe load was higher in tray dried powder than hot air oven dried powder. In conclusion, by considering the yield, drying time, drying rate, quality analysis tray dryer technique was found to be better than hot air oven technique for the preparation of cauliflower leaf powder.

Keywords: Cauliflower Leaf, Tray Dryer, Hot Air Oven, Drying Curve.

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11 Histopathological Pancreatic Cancer Detection

Paper ID V10I4-1187 · Pages 73-78 · Machine Learning

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We demonstrate a successful use of quantum machine learning in the medical domain. This study focuses on a classification issue employing quantum transfer learning for the identification of histopathological pancreatic cancer. numerous transfer learning models, including VGG-16, ResNet18, AlexNet, Inception-v3, and numerous

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highly expressible variational quantum circuits (VQC), are used in this work model instead of a single one. Consequently, we offer a comparative evaluation of the models, highlighting the top-performing transfer learning model for histopathological cancer diagnosis, which has a prediction AUC of around 0.93. Additionally, we noticed that Classical (HQC) and Hybrid Quantum offered a little higher accuracy (0.885) than classical (0.88) for 1000 photos using Resnet18.

Keywords: Classical Deep Neural Networks, Quantum Hybrid Machine Learning, Convolutional Auto-Encoders, Classifier, Pancreatic Cancer

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12 Gender Pay Gap in the Two Most Popular Sports; A Comprehensive View of the Current Position of Soccer Players and Cricketers

Paper ID V10I4-1180 · Pages 79-83 · Gender Studies

Kimaya Jhala Gulati, Student, The American Embassy School, New Delhi

This research paper discusses the differences between the experiences of women and men in sports, largely focusing on soccer. This paper takes a comprehensive look at factors that prevent women from reaching an equal pay gap, acts in certain countries to prevent pay gap discrimination that is ineffective, comparison of the salaries of men vs women in particular sports, the large difference in media coverage and sponsorships received by women vs men, whether the popularity of a sport impacts the pay gap, challenges women face, recognition of male vs female athletes, and the politicizing of women in sports.

Keywords: Sportsmanship, Women Athletes, Gender Pay Gap, Media Coverage, Soccer, Cricket, Football

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13 Plant Afflict Perception using Deep Learning

Paper ID V10I4-1182 · Pages 84-88 · Computer Science And Engineering

G Amrutha Swapna Tulasi, Student, Gandhi Institute of Technology and Management, Visakhapatnam

Plant disease detection is a critical task in agriculture to prevent significant losses due to disease spread. The manual examination process used in traditional disease detection methods takes a lot of time and labor. This research presents a plant disease detection system using deep learning, specifically leveraging the InceptionV3 architecture, a type of Convolutional Neural Network (CNN). Our approach demonstrates improved accuracy and speed in identifying plant diseases, contributing to more efficient agricultural practices. The model achieved a validation accuracy of 96%.

Keywords: Plant Disease Detection, Convolution Neural Network (CNN), Inceptionv3

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14 Preventive Healthcare Diagnostics Leveraging Machine Learning

Paper ID V10I4-1184 · Pages 89-96 · Digital Healthcare

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Anandi Nagpal, Student, Delhi Public School, Pune, Maharashtra
Naisha Parida, Student, KIIT International School, Bhubaneswar, Odisha

The healthcare system in India is facing unprecedented challenges due to the rising population, inadequate healthcare infrastructure, higher doctor-to-patient ratio, and lack of healthcare awareness in our society. Technology is the only saviour to bring in the much-needed transformation required in healthcare space. One such idea is Predictive Healthcare Analytics which has the potential to revolutionize the healthcare industry by providing insights that improve patient outcomes, optimize usage of existing resources, and enhance overall efficiency. It leverages data, analysis algorithms, and machine learning techniques to forecast future health outcomes and trends. This approach enables doctors to anticipate potential issues and proactively address them, rather than responding reactively.

Keywords: Digital Healthcare, Predictive Healthcare, Healthcare Diagnostics, Data Analytics, Artificial Intelligence, Machine Learning

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15 Detection and Classification of Bone Fractures in X-Ray Images using Yolov8

Paper ID V10I4-1189 · Pages 97-102 · Computer Vision

Vidya Shree G, Independent Researcher, Independent Researcher

Hospitals often handle a significant volume of bone fractures, which form a major segment of their medical caseload. X-ray imaging is critical for the accurate detection and classification of these fractures, playing a pivotal role in guiding subsequent treatment strategies. This study investigates the potential of the YOLO (You Only Look Once) deep learning framework to advance the automatic detection and classification of bone fractures in X-ray images. Specifically, it aims to enhance the YOLOv8 model's ability to identify various fracture types by training it on an extensive and diverse set of labelled X-ray images and employing data augmentation techniques to improve performance. The diagnostic tool is expected to support radiologists by providing timely and accurate insights, thereby streamlining the decision-making process. The results show that the YOLOv8 model, enhanced with data augmentation outperforms the standard YOLOv8 model in both accuracy and speed for fracture detection and classification. This approach not only promises to elevate diagnostic standards but also has the potential to reduce the workload on radiologists, leading to more effective and efficient patient care.

Keywords: You Only Look Once (YOLO), Bone fractures, Convolutional Neural Network (CNN), X-rays, Image analysis, Deep learning, Data Augmentation, YOLOv8

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16 Using Technology to Explore the Therapeutic Benefits of Classical Indian Music

Paper ID V10I4-1179 · Pages 103-108 · Music Therapy

Samarth Varma, Student, Jamnabai Narsee School, Mumbai

This review paper explores the therapeutic qualities of Indian ragas and the potential use of modern technology in analyzing them. It examines traditional beliefs, recent scientific research, and the application of computational techniques such as machine learning and audio analysis tools in studying ragas.

Keywords: Indian Ragas, Music Therapy, Computational Analysis, Machine Learning, Audio Analysis, Eeg Studies, Chakras, Western Music Therapy, Therapeutic Effects, Interdisciplinary Research

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17 A Comprehensive Look at Sexual Violence: Identification, Initiation and Impact

Paper ID V10I4-1186 · Pages 109-116 · Gender Studies

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This research paper is based on the widespread topic of sexual violence. It talks about the signs that a person has suffered through sexual assault, the ways to support a person who has gone through such an experience as well as the impact that has on them. This paper discusses sexual cyberbullying by peers as well as online strangers, the ‘causes’ of sexual assault according to society, and research based on it. It also includes the difference between sexual assault and sexual abuse and how dress codes objectify and sexualize children. The precautions that can be taken to prevent sexual assault are also a big aspect discussed.

Keywords: Sexual Assault, Sexual Abuse, Cyberbullying, Teen Sexual Assault, Impact, Prevention, Causes, Dress Codes, Objectification, Coping Methods

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18 An Analysis and Survey of India’s Unsecured Loan Market: Types, Sources and Risks.

Paper ID V10I4-1193 · Pages 117-129 · Economics

Tara Chadda, Student, The Shri Ram School, Moulsari, Gurgaon

This research paper aims to dive deep into India's concept of unsecured loans. It seeks to find out what these loans are exactly, whether they are beneficial or predatory, and what factors lead to defaults. Furthermore, the paper aims to determine the factors deciding such loans' eligibilitys such as credit score, income, and age. The various informal sources of lending like moneylenders, landlords, and friends as well as the types of unsecured loans such as payday loans, signature loans, credit cards, etc are also explored. Bank policy when giving out credit as well as deciding how much risk these institutions can take, keeping in mind minimum liquidity requirements set by the Reserve Bank Of India is discussed. Additionally, a survey has been conducted to understand the demographic of people taking various types of loans, whether they prefer secured or unsecured

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credit, and the factors they consider before borrowing money. People were asked subjective questions such as what they feel are the risks of borrowing from a loan app or whether they feel that credit cards have high interest rates or not.

Keywords: Credit, Risk, Unsecured Loan, Banks, Predatory Loans, Credit Score

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19 Formulation and Evaluation of Face Wash by Using Antiacne Agent

Paper ID V10I4-1196 · Pages 130-138 · Pharmaceutical

KARISHMA SONWANE, Student, Shri Sadguru Datta Institute of Pharmacy, Nagpur
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Formulation and evaluation of face wash by using anti acne agent shows that the prevention of acne using aloe vera, Neem, Turmeric oil, etc. by extraction method of leaves and also phytochemical studies shows presence of alkaloids ,flavanoids, terpenoids, glycosides, saponins, tannins etc. The overall study concludes that the importance of skin health and function of herbal formulation in skin-care regimen, notably in treating acne. Herbal skin care products can provide natural alternatives to synthetic treatment, promoting healthy and bright skin.

Keywords: Face Wash, Flavonoids Content, Skin-Care Regimen, Bright Skin

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20 The Impact of Highly-Skilled and Talented Workers on the US Economy: Leveraging the Best and Brightest Minds for Economic Growth

Paper ID V10I4-1195 · Pages 139-147 · Law

Deborah Similoluwa Akinbobola, Others, University of Illinois, Urbana-Champaign

The United States has long been a beacon of opportunity and innovation, attracting some of the brightest minds from around the world. The influx of highly skilled and talented workers has been crucial in driving economic growth, fostering innovation, and maintaining the nation's competitive edge globally. This paper examines the profound impact of these individuals on the U.S. economy, particularly within the technology sector, and explores their contributions across STEM (Science, Technology, Engineering, and Mathematics) fields, finance, legal, and healthcare sectors, which have fueled economic development and technological advancement. However, this Research Note also identifies several challenges that could hinder the productivity and impact of these workers. Key issues include brain waste and skills mismatches, the displacement and replacement of native workers, brain drain and talent retention, access to education and economic inequality, as well as migration and international student policies, and security and social safety concerns. To ensure the continued economic productivity of these talented individuals, the researcher recommends several solutions. These include establishing programs to more efficiently recognize and validate foreign credentials, implementing reverse brain drain initiatives, and strengthening the monitoring and enforcement mechanisms

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of existing laws, such as the “Protect and Grow American Jobs Act.”

Keywords: Highly-Skilled Workers, Innovation, US Economy

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21 Inherent Gender Bias in Women Safety And LLMs with Special Emphasis on Engineering Design Defects and Technological Aspects

Paper ID V10I4-1194 · Pages 148-155 · Design

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Current safety and technology systems often overlook the unique needs of women. Issues with crash test dummies, stab vests, CPR techniques, and AI systems reveal significant risks and discomfort for women due to designs based primarily on male standards.Addressing these issues requires integrating female-specific models in safety tests, improving the design of protective gear, and correcting biases in AI systems. Implementing these changes will ensure that both men and women receive fair and effective protection, making technology and safety measures more equitable and reliable for everyone.

Keywords: Gender Bias, Flawed Technology, Women Safety, Stereotypes, Biased Data, Inclusive Design.

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22 Evaluating the Impact of Data Visualization Tools on Decision-Making Processes in Healthcare: A User-Centric Analysis.

Paper ID V10I4-1166 · Pages 156-160 · Information Technology

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Oluwaseyi Abujade, Student, Towson University, Towson, Maryland

Data has become the backbone of informed decision-making across industries, including healthcare. The adoption of Electronic Health Records (EHR) has amplified the importance of data, making data visualization an indispensable tool for professionals [1]. Effectively extracting and visualizing data into valuable insights can produce remarkable outcomes in the decision-making process involved in the healthcare domain [2]. As the healthcare industry uses the ever-increasing volume and complexity of medical data, data visualization tools have emerged as promising solutions for enhancing decision-making processes. According to a survey conducted by HealthIT.gov 2017, 94% of healthcare organizations reported using electronic clinical data from their EHR to support decision-making processes. The same survey, however, also indicated that only 31% of respondents believed that their organizations were highly effective in leveraging visualization tools for decision support [3]. This discrepancy highlights a gap between the widespread implementation of data visualization tools and the perceived effectiveness of their adoption in healthcare decision-making. Historically, decision-making in the clinical aspect of healthcare relied on manual analysis of patient records and limited datasets [3]. With the digitization of health records and the exponential growth of data in the health sector, the need for advanced tools to extract meaningful patterns is evident. The use of electronic health records (EHRs) has changed how we gather large datasets, with the potential to revolutionize decision-making processes in the

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healthcare domain. This research aims to investigate the influence of data visualization tools on decision-making processes within the healthcare domain, focusing on the users' perspective. The primary line of inquiry will examine how users and healthcare professionals, including clinicians, administrators, and analysts, perceive and interact with data visualization tools in their decision-making processes. The research will explore the features and elements that users find most valuable or challenging, seeking insights into how integrating data visualization tools can be improved to enhance decision-making.

Keywords: Data Visualization, Electronic Health Records (EHR), Healthcare Decision-Making, User Experience, Data-Driven Insights

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23 Corporate Sponsorships and Arsenal F.C.’S Financial Evolution

Paper ID V10I4-1202 · Pages 161-167 · Business Management

Samarth Shrivas, Student, Independent Researcher

This research explores Arsenal Football Club's strategic use of corporate sponsorships to bolster its financial stability and global brand presence. It examines key sponsorship deals, including the Emirates Stadium naming rights and agreements with Nike, Puma, Adidas, and PRIME, illustrating their role in transforming Arsenal into a commercial powerhouse. The study highlights the club's innovative approach, particularly through the PRIME and Sobha Realty partnerships, emphasizing the importance of adapting to modern sponsorship dynamics. Arsenal's successful strategies provide valuable insights into sports finance and set a benchmark for financial acumen and commercial success in football.

Keywords: Arsenal Football Club, Corporate Sponsorship, Financial Stability, Brand Visibility, Emirates Stadium, Sobha Realty, Commercial Success, Sports Marketing, Revenue Streams, Kit Sponsorship, Naming Rights, Global Profile, Influencer Partnerships, Football Economics.

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24 Biases in Ai-Driven Educational Tools

Paper ID V10I4-1204 · Pages 168-176 · Artificial Intelligence

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This paper explores the prevalence of biases in AI-driven educational technologies, examining their sources, manifestations, and impacts on diverse student populations. It proposes a framework for identifying and mitigating biases, emphasizing the need for transparent and inclusive educational technologies. The global market value of AI in education is projected to increase by over 45% CAGR(Compound Annual Growth Rate) between 2022 and 2030- highlighting the vast potential of this growing industry. As a responsible society, we must ensure the ethical reproduction of Artificial Intelligence in a sensitive domain like education, where the potential is boundless however the risks are equally potent. This paper aims to set the foundation of AI as an assistive technology and not as a replacement for traditional teaching. The research highlights the use of Deep Learning and Natural Language Processing in Curriculum Design or Pedagogy planning, focusing on critical thinking and not only static learning. While other recent works have merely reviewed one use case, we have

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categorized EdTech tools into three learning pathways: Student-Supporting, Teacher-Supporting, and System-Supporting. By theoretical and empirical analysis, we systematically break down two technologies Assistive Grading Technology and Chatbot Personalized learning, and consequently explore every impact on the stakeholders: students, teachers, and the educational community. Furthermore, we emphasize the need for a safe regulatory framework, much like the one currently existing, to ensure there is no misuse of data collected. The laws surrounding the fragility of the information sourced and the usage of data mining for further replication should be strict, with appropriate legal consequences for breaching the same.

Keywords: Artificial Intelligence, Bias, Education, Assistive Grading, Data Bias, Algorithmic Bias, Bias Mitigation, Machine Learning

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25 A Study of Passer Domesticus and Pycnonotus Barbatus Nesting Behavior In an Urban Microhabitat in Raebareli, Uttar Pradesh

Paper ID V10I4-1199 · Pages 177-187 · Ecology

Priya Patel, Student, Feroze Gandhi Degree College,(Lucknow University), Raebareli
Dr. Tuneera Bhadauria, Assistant Professor, Feroze Gandhi Degree College ,(Lucknow University) Raebareli,

The nesting biology of a bird species is likely the most important component of its life history and is affected by several ecological and environmental factors. Various components of avian nesting biology have proved to be important traits for testing fundamental ecological and evolutionary hypotheses, and for monitoring the efficacy of biological conservation programs. Although there is a great need for research, there are several biological, legal, and ethical aspects to consider before studying bird nests through direct observation or by using new technological and digital monitoring techniques. Here, we outline the merits and needs for studying the nesting biology of birds in India but also suggest best practices specific to the Indian context, which will help ensure that the research is conducted legally, ethically, and in a way that can provide important new information to advance Indian ornithology without compromising the welfare of birds.

Keywords: Breeding Biology , Incubation , Nestling , Parental Roles

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26 Advances in Dental Implant Technology

Paper ID V10I4-1205 · Pages 188-190 · Dentistry

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This abstract delves into the rapidly evolving field of implant dentistry, highlighting the continuous advancements in dental technology that are revolutionising oral health restoration and enhancing smiles. The exploration of implant innovations spans a range of cutting-edge technologies, including digital imaging, computer-aided design and manufacturing (CAD/CAM), guided surgery techniques, immediate load implants, biocompatible materials, and augmented reality. These innovations collectively contribute to a more precise, efficient, and patient-centered approach, ushering in a new era in dental care. As advancements in implant technology continue to expand the frontiers of dental care, the future holds numerous promising

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developments. The fusion of artistic and scientific principles in implantology aims not only to replace missing teeth but to do so with a high degree of sophistication, respecting the unique oral anatomy of each patient. This abstract encourages an examination of the dynamic relationship between implant innovations and dental technology, presenting a future where new developments not only restore smiles but also transform the nature of personalised, precise, and patient-focused oral health care.

Keywords: Implant Innovations; Dental Technology; Dental Implants; Digital Imaging; Computer-Aided Design and Manufacturing (CAD/CAM); Guided Surgery Techniques; Biocompatible Materials

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27 Economically Weaker Section Allocations- Impact, Misuse, and Implementation Framework

Paper ID V10I4-1197 · Pages 191-196 · Economics

Ridhima Kapur, Student, Heritage Xperiential Learning School, Gurgaon

This paper talks about the economically weaker section of the society. It includes information about different topics; The Impact of Affordable general housing for the urban poor, Misuse of Affordable Housing Schmes and its direct consequences, Source of Finance, Economic parameters, Sanitation and Location, Critical issues in the affordable housing sector, Infrastructure Parameters, Services, Regulations, International evidence. This paper examines the depth of different major problems about the economically weaker section and the other parameters that affect this.

Keywords: Infrastructure Parameters, Economically Weaker Section, Affordable Housing, Economic Parameters, Below Poverty Line, Urban Poor

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28 CNN-Based Moving Object Detection in Low-Light and Adverse Weather Conditions

Paper ID V10I4-1200 · Pages 197-202 · Object Detection Using Cnn

KODETI HARITHA RANI, Research Scholar, Lincoln University College, Malaysia
Midhun Chakkaravarthy, Associate Professor, Lincoln University College,Malaysia

The detection of moving objects in video sequences is a critical task for numerous applications, including autonomous driving, surveillance, and robotics. However, this task becomes significantly more challenging under low-light and adverse weather conditions, where traditional detection methods often fail. This paper presents a novel approach leveraging Convolutional Neural Networks (CNNs) for robust moving object detection in such challenging environments.Our proposed method incorporates advanced CNN architectures specifically designed to handle the complexities introduced by low-light and adverse weather conditions. We integrate a multi-stage preprocessing pipeline that enhances image quality and visibility before feeding the frames into the detection network. Additionally, we employ a temporal convolutional network to effectively utilize temporal information, improving detection accuracy and stability over consecutive frames.Extensive experiments are conducted on benchmark datasets and newly curated video sequences captured under various low-light and

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adverse weather conditions. The results demonstrate that our approach significantly outperforms state-of-the-art methods in terms of detection accuracy and robustness. Our CNN-based solution not only excels in detecting moving objects but also maintains high performance in real-time applications, proving its practicality and efficiency.This research highlights the potential of advanced CNN techniques in overcoming the limitations posed by challenging environmental conditions, paving the way for more reliable and resilient object detection systems in real-world scenarios.

Keywords: Low-Light, Adverse Weather Conditions, Convolutional Neural Networks, Object Detection, Moving Object Detection.

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29 Waste Sorting and Recycling with AI: Implementing Faster R-CNN for Object Detection

Paper ID V10I4-1201 · Pages 203-209 · Image Processing

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MIDHUN CHAKKARAVARTHY, Associate Professor, Lincoln University College,Malaysia

The increasing volume of waste generated worldwide presents significant environmental challenges, necessitating efficient and automated waste management solutions. This paper explores the application of artificial intelligence (AI) in waste sorting and recycling, focusing on the implementation of the Faster R-CNN (Region-based Convolutional Neural Network) model for object detection. Faster R-CNN is renowned for its accuracy and speed in detecting and classifying objects within images, making it an ideal candidate for real-time waste segregation tasks.Our research involves training the Faster R-CNN model on a diverse dataset comprising various waste categories, including plastics, metals, paper, and organic waste. The model's performance is evaluated based on metrics such as precision, recall, and mean Average Precision (mAP). The experimental results demonstrate the model's high accuracy in distinguishing between different types of waste materials, thereby facilitating effective sorting processes.

Keywords: Artificial Intelligence, Faster R-Cnn (Region-Based Convolutional Neural Network), Mean Average Precision (Map), Object Detection

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30 The Role of Artificial Intelligence in Enhancing Intraoperative Decision-Making

Paper ID V10I4-1218 · Pages 210-212 · Surgery

Shayaan Khan, Student, Independent Researcher

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Artificial Intelligence (AI) is transforming surgical practice, particularly in intraoperative decision-making. This study explores the current applications of AI in providing real-time decision support during surgery, focusing on its impact on reducing complication rates, operation times, and improving patient recovery. By integrating AI tools with surgical practice, the potential to enhance precision and patient outcome is significant. However, challenges such as algorithmic bias and ethical implications of AI in surgery require careful consideration.

Keywords: Artificial Intelligence, Intraoperative Decision-Making, Surgery, Machine Learning, Patient Safety

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31 Organizational Hierarchy: An in-Depth Literature Review

Paper ID V10I4-1206 · Pages 213-220 · Management

Shaarvi Dashora, Student, Christ University, Bangalore

This paper combines the views of 50+ research articles on organisational hierarchy. Upon a thorough analysis of the literature, six subthemes emerged, namely Age differences, Impact on women, Abuse of power, Conflict management, Digital workplaces and Covid-19 . These were analysed in detail to see the effects they had on organisational hierarchy. Abuse of power and conflict within and across hierarchies was understood through a multitude of research papers concerning the two. We also looked at how age and gender roles and stereotypes have an influence on how the individuals are treated and the amount of advancement opportunities that they get due to them belonging to a certain category. Lastly, to keep up with the current times, we also viewed how hierarchies fluctuate and modify due to the existence of digital workplaces and how they have had drastic changes in the organisation since they started using digital workplaces in the Covid-19 era.

Keywords: Organisational Hierarchy, Age Differences, Impact On Women, Abuse Of Power, Conflict Management, Digital Workplaces, Covid-19

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32 Surveillance of Antibiotic Resistant Micro Organisms Isolated from Water Bodies in Chennai, The Southern Part of India

Paper ID V10I4-1237 · Pages 221-226 · Microbiology

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The emergence and spread of antibiotic-resistant bacteria in the environment is a serious medical and environmental problem worldwide.This study aimed to assess the microbiological quality and antibiograms of bacterial isolates from water bodies in Chennai , India to assess the prevalence and antibiotic resistance profiles of these bacteria in environmental samples .Antibiotic-resistant bacteria are able to transfer their genes to other aquatic bacteria, which thus acquire new resistance genes Isolating bacteria from clinical or environmental samples involves specific microbiological methods such as aiding in diagnosis, and guiding effective treatment strategies in clinical and research settings.Water samples were collected from various sources, including rivers, lakes, and reservoirs, and bacteria isolates were identified and characterised using standard microbiological methods. drinking water coming from these sources contains microorganisms Most often, Escherichia coli, Pseudomonas aeruginosa, Staphylococcus aureus, Enterobacter aerogenes, Klebsiella

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spp.Salmonella typhi Were sown from water samples. Studies have shown that all isolated microorganisms have multi-resistance to one degree or another. But Escherichia coli and Klebsiella pneumoniae had the greatest resistance to various antibiotics.

Keywords: Antibiotic Resistant , Bacteria , Bacteria Isolated from Water Bodies

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33 Acquiring Knowledge in an Easy Way Through Academicals Travelling

Paper ID V10I4-1214 · Pages 227-232 · Social Science Education

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Abstract Gaining knowledge on educational trips at an affordable cost has been given utmost importance. At present, if we want to meet all the needs of people, just as finance, education and judgment are needed; the great wealth called knowledge is more needed. Therefore, this attempt is aimed at visual perception of truth in terms of practical direct education with moral education. So that the knowledge can be accepted and mastered very easily, then indeed the subject will become universal. Any trip i.e. to friends, relatives, neighborhood, village, city, state, country, continent, wherever one goes, a joy arises in the heart. If we include educational subjects with it, then there is no more talk. Applying knowledge through proper education in the field of information collection, preservation, publication, workplace, literature, culture focusing on the educational issue will create an example for the present and future generations. In this, everyone including students, teachers, researchers, common people and even the people outside the census in the country will be happy to get the status. And a wholesome environment will be created in the country. In order to obtain direct and indirect true knowledge, I shall proceed by means of travel or wandering. This procedure is very inexpensive and often happens to everyone. It is possible to do multiple tasks at a single cost easily. It is possible to get multiple good results such as improvement of knowledge, increase in consciousness, its need is immense in education. Travel is an essential part of education. Many things in this world teach us to think. Also, it helps a lot to understand that there are many things left out of knowing. The person finds himself in something successful. Knowledge is about things or things that possess full enjoyment. It is possible to get a taste of education revolution liberation only by traveling here. So there is no room for denial. Be it on foot, bicycle, rickshaw, bus, rail, ship, plane, whatever it is, you have to go out for the purpose of travel. Be it friends, relatives, relatives, family, if you go out for a few hours or days, the taste of life becomes different. Travel is the main source of happiness and travel is the ultimate means of liberation. Abstract Gaining knowledge on educational trips at an affordable cost has been given utmost importance. At present, if we wa

Keywords: Easily, Possible, Affordability, Everywhere, Educational, Travel, Excursions, Expedition

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34 DYSON- An Exception to the Law of Demand

Paper ID V10I4-1227 · Pages 233-249 · Economics

Soha Mehta, Student, The Cathedral and John Connon School, Mumbai

Dyson has dominated several markets and continuously reinvented itself. Inventor and engineer James Dyson officially launched Dyson in 1991. With a net worth of over $9.2 billion, Dyson is now the fourth richest British person in the world according on the 2022 Forbes Rich List. Initially, the firm concentrated on creating cutting-edge hoover cleaners that were intended to clean more effectively and efficiently than conventional versions. In addition to hoover cleaners, Dyson has kept up its innovative streak and expanded its product range. Other home devices that the business has created include hand dryers, air purifiers, and lighting items. With the 2016 release of its Supersonic hair dryer, it has also entered new areas, such as those for personal hygiene and cosmetics. In its thirty years and counting, Dyson has proven over and again that it can invest in and nurture innovative ideas while still turning a profit as a company. They have now been successful in creating a brand that is applicable to several industries. Their unwavering focus on the smallest details, excessive over-engineering for daily chores, and exorbitant price points have given rise to a novel idea: the "appliance as a status symbol."

Keywords: Exceptions to law of demand, Law of demand, Innovation, technology, home appliances, personal care products, vacuum cleaners, high quality, research and development, consumer, strategy, engineers, competitive markets , premium prices, high product variety, expensive, sustainable and durable, experiment, electronics, commercial, design

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35 Impact of SAP S_4 HANA Advanced Variant Configuration

Paper ID V10I4-1243 · Pages 250-257 · Software Engineering- Enterprise Management System

Jeyaganesh Viswanathan, Zoetis, New Jersey

The escalating intricacy of product configurations in industries with diverse offerings has long strained legacy SAP ECC systems, particularly in variant configuration. Conventional SAP ECC, while robust, often falters due to complexity, suboptimal performance, and integration hurdles, leading to operational inefficiencies and customer dissatisfaction. This paper presents a transformative solution: SAP S/4HANA's Advanced Variant Configuration (AVC). We dissect the limitations of traditional SAP ECC variant configuration, highlighting cumbersome maintenance, sluggish high-volume processing, and integration bottlenecks. By adopting S/4HANA, businesses can harness AVC's enhanced capabilities: real-time processing for swift and accurate configuration, scalability for growing demands, and seamless integration for streamlined operations. AVC simplifies variant configuration and elevates the customer experience through heightened accuracy, reduced lead times, and personalized product options, leading to increased satisfaction. This analysis underscores AVC as pivotal for businesses managing complex portfolios, providing a competitive edge in dynamic markets. SAP S/4HANA's AVC emerges as a crucial enabler of operational efficiency and customer-centricity, making it indispensable for modern enterprises seeking excellence.

Keywords: SAP S/4HANA, Advanced Variant Configuration, SAP ECC, Complex Product Portfolios, Operational Efficiency, Customer Experience.

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36 The Mechanics of Learning

Paper ID V10I4-1213 · Pages 258-261 · Psychology

Aradhya Bhargava, Student, Perfect Communication, Gurgaon

The adage "Knowledge is power" is often accepted uncritically, yet this concept warrants deeper examination. In reality, knowledge, much like a steam engine, is not inherently powerful but is a tool that requires proper application and context to generate influence. Drawing on Annette Fisk's observation that psychology, originally the "science of the soul," has devolved into a mere "science of the mind," this paper explores the evolution of learning and its role in personal and societal development. While society perpetuates the belief that continuous learning is essential because life itself is an unending teacher, this research questions whether learning is truly within an individual's control. Can individuals selectively acquire knowledge, or are they at the mercy of what they encounter? Additionally, the paper examines the commonly held notion that practice is the key to mastering a skill, probing whether practice alone suffices or if other factors contribute to skill acquisition and perfection.

Keywords: Knowledge Power, Learning Control, Psychology Evolution, Skill Acquisition, Practice Effectiveness.

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37 Challenging Child Marriage: The Role of Female Participation in Small-Scale Industries and Comprehensive Socio-Economic Policies

Paper ID V10I4-1240 · Pages 262-264 · Social - Economics

Aishwarya Binujeeth, Student, Seedling Modern Public School, Udaipur

This research addresses the persistent issue of child marriage, focusing on its prevalence in regions like Rajasthan, India, where 35% of girls are married before the age of 18. The practice is driven not only by poverty and lack of education but also by a deeply ingrained "packaged mentality" that perceives daughters as burdens. Despite various legal efforts to combat child marriage, this mindset continues to hinder progress. The study explores the transformative potential of involving women in small-scale industries, where their participation can challenge traditional gender roles and shift societal perceptions. The research proposes policies to promote female participation in businesses, alongside incentives for families to invest in their daughters' education. Additionally, addressing menstrual health by providing free or low-cost products in schools is identified as crucial for keeping girls in education. These comprehensive strategies aim to reduce child marriage and promote gender equality by valuing girls for their potential rather than as burdens.

Keywords: Child Marriage, Packaged Mentality, Gender Equality, Small-Scale Industries, Female Participation, Menstrual Health.

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38 Use and Relevance of Artificial Intelligence (AI) in Ayurveda

Paper ID V10I4-1245 · Pages 265-268 · Ayurveda

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Dr. Sakshi Sen, Research Scholar, MD Scholar, Department of Roga Nidan Evum Vikriti Vigyana, All India Institute of Ayurveda, New Delhi, India
Dr. Lajwanti Keswani, Associate Professor, HOD, Department of Ayurveda Samhita and Siddhant, Pt. Khushilal Sharma Government (Autonomous) Ayurveda College and Institute, Bhopal, Madhya Pradesh, India
Dr. Rajesh Kumar Malviya, Associate Professor, Reader, Department of Ayurveda Samhita and Siddhant, Pt. Khushilal Sharma Government (Autonomous) Ayurveda College and Institute, Bhopal, Madhya Pradesh, India
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Integrating Artificial Intelligence (AI) in Ayurveda presents a transformative approach to enhancing traditional medical practices. AI's data analysis and machine learning capabilities can optimize Ayurvedic diagnosis, treatment personalization, and predictive healthcare. By leveraging AI algorithms, Ayurveda can analyze vast patient data to identify patterns, recommend therapies, and forecast health outcomes, thus improving precision and effectiveness. Additionally, AI aids in digitizing ancient texts, making Ayurvedic knowledge more accessible. The relevance of AI in Ayurveda lies in its potential to modernize and expand the reach of this ancient science while maintaining its holistic approach to health and wellness. This article explores the current applications of AI in Ayurveda, evaluating its impact and potential for the future of holistic healthcare.

Keywords: Ayurveda, Artificial Intelligence, Kritim Buddhi, Human Data, Machine learning

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39 Modelling the Mass to Light Ratios of High Red-Shift Galaxies

Paper ID V10I4-1223 · Pages 269-275 · Astrophysics

Arrman Sanganeria, Student, Independant Researcher

The field of astrophysics is a dynamic and rapidly evolving area of research that seeks to understand the universe's structure, evolution, and fundamental laws governing celestial objects. One of the key areas of interest within astrophysics is the study of galaxy formation and evolution. Galaxies are vast collections of stars, gas, dust, and dark matter held together by gravity, and their formation and evolution processes are crucial for understanding the universe's large-scale structure.

Keywords: SPHINX, JWST, Mass, Light, Red-Shift

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To Sell or Recycle Electronic Waste; Evidence from a Survey Experiment in Mumbai

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Electronic waste is a growing concern in many cities, but little is known about how much people participate in certain waste streams with their previous products. The question which this research paper will be talking about is 'What are the barriers to responsible electronic waste reuse and recycling in Mumbai?'. Matters will also be discussed such as why studying electronic waste is important, what the large environmental concerns of electronic waste consist of, and the problems that electronic waste causes in the city of Mumbai. A survey has also been conducted. Around 100 people have filled out the survey. All of the people who have filled out this survey are situated in the city of Mumbai, India. This survey asks basic questions about electronic waste such as what effect it has on us humans and on the environment. A survey experiment about an old TV was also conducted in the survey. In this experiment, the resale price of the old TV constantly decreases and the people filling out the survey decide whether they want to give/throw away the old TV, sell the TV at a particular resale price or keep the TV as backup. If they chose to give/throw away the TV or sell it at the given resale price, they would be directed to another section where they would be told that the resale value of the TV actually increased to $150 from the original resale price. The user would then be asked whether they regretted their decision of not keeping the TV. The results from the survey show that when the respondent does not keep the old TV at a lower price and when they find out that the resale value has changed $150, they tend to regret their decision more. In this survey when the initial resale value of the old TV was $10, most of the respondents did not keep it, but when they were told that the resale value of the old TV was actually $150, many of them regretted their decision of not keeping the old TV. This implies that the price determines the fate of old electronics. The higher the value, the more likely someone is willing to keep the old electronics.

Keywords: Economics, Electronic Waste,Recycle, Mumbai, Survey, Experiment

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