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3.3. Research Publications and Awards

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Number of Research papers in the journals modified on UGC website during last 5 years

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Co-Authored

By

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has been published in Volume 12 Issue 9, September 2023

in

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This paper has passed the Double Blind Review and satisfies the required standards.

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Social Entrepreneurship: A Sustainable Solution to Achieve National and Global Vision

Dr. Madhavi Shamkuwar | Dr. Rahul More | Pandurang Patil

Abstract: It is undeniably true that entrepreneurship is now a key factor in any country's economic expansion. Being an entrepreneur requires creative thinking, a strong skill set, and the guts to start a new company venture. He not only generates the chance for himself, but also for many people who are connected to him. He then assembles a business team to carry out the plan. However, a businessperson is referred to as a social entrepreneur when he or she recognises social issues and uses entrepreneurial concepts to develop a business model to address social responsibility. Social entrepreneurs assess their performance in terms of societal advancement and changes rather than business entrepreneurs, who gauge success in terms of money made and profits made.

Keywords: Social entrepreneurship, social entrepreneurs, UN sustainable goals, G20, sustainability

Edition: Volume 12 Issue 9, September 2023,

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Social Entrepreneurship: A Sustainable Solution to Achieve National and Global Vision

Dr. **Madhavi Shamkuwar**¹, Dr. **Rahul More**², **Pandurang Patil**³

¹Assistant Professor, Zeal Institute of Business Administration, Computer Application & Research, Pune

²Assistant Professor, Sinhgad Institute of Management & Computer Application, Pune

³Assistant Professor, Zeal Institute of Business Administration, Computer Application & Research, Pune

Abstract: *It is undeniably true that entrepreneurship is now a key factor in any country's economic expansion. Being an entrepreneur requires creative thinking, a strong skill set, and the guts to start a new company venture. He not only generates the chance for himself, but also for many people who are connected to him. He then assembles a business team to carry out the plan. However, a businessperson is referred to as a social entrepreneur when he or she recognises social issues and uses entrepreneurial concepts to develop a business model to address social responsibility. Social entrepreneurs assess their performance in terms of societal advancement and changes rather than business entrepreneurs, who gauge success in terms of money made and profits made.*

Keywords: Social entrepreneurship, social entrepreneurs, UN sustainable goals, G20, sustainability

1. Introduction

An author of "How to Ruin a Business Without Really Trying"[1] and a co-founder of a consulting firm Hustle Branding, M. J. Gottlieb defines an entrepreneur to be someone who has a potential to dream the undreamt and can take any idea to conclusion. An entrepreneur is first and foremost someone who has the drive, expertise, and guts to do whatever it takes to transform an idea into a marketable product or service that is also desired by society. He is a person who is self-assured, driven, and equipped with the knowledge, skills, initiative, desire, and spirit of creativity to work towards both personal and societal advancement [2-8]. An entrepreneur identifies opportunities and seizes it for economic benefits, and hence acts like an economic agent who plays a vital role in the economic development of a country [9-12].

Social entrepreneurship refers to the practice of combining the passion and drive of an entrepreneur with the goal of creating a positive social impact. It involves starting a business that aims to solve social or environmental problems, and can be for-profit or non-profit. Social entrepreneurs use innovative business models to create sustainable solutions to societal challenges. [13]The goal of social entrepreneurship within international firms is to create positive social and environmental outcomes while also achieving economic success. Social entrepreneurship within international firms refers to the integration of socially and environmentally responsible practices within the operations of multinational corporations. This can include initiatives such as supply chain sustainability, community engagement programs, and impact investing[14]. International firms practicing social entrepreneurship aim to balance the pursuit

of profit with creating positive social and environmental outcomes.

International firms can engage in social entrepreneurship by integrating social and environmental goals into their business strategies, operations, and decision-making processes[15].

1) Social Entrepreneurship and its Sustainable Dimensions

The sustainable dimension of social entrepreneurship is crucial as it helps to ensure that the positive social impact created is long-lasting and self-sustaining. A sustainable approach to social entrepreneurship involves considering the long-term impact of business decisions on society and the environment and taking steps to minimize negative consequences and maximize positive outcomes. By taking a sustainable approach, social entrepreneurs can help create a more equitable and sustainable world for future generations. This includes the use of renewable resources, reducing waste, creating fair labor practices, and contributing to the betterment of communities and the environment.

2) Social Entrepreneurship and its Mapping With UN Sustainable Goals : Literature Review

The United Nations Sustainable Development Goals (SDGs) are a set of 17 global goals adopted by the UN in 2015 with the aim of ending poverty, protecting the planet, and ensuring peace and prosperity for all. Social entrepreneurship has the potential to play a significant role in advancing the SDGs [17] by creating innovative solutions to the complex social and environmental challenges that the goals seek to address. Many social entrepreneurs are actively working to address specific SDGs, such as:

Goal no	UN name	Social entrepreneurs initiatives to implement SDG	References
SDG 1	No Poverty	Social entrepreneurs are working to reduce poverty by creating economic opportunities and providing access to essential goods and services.	[18]
SDG 2	Zero Hunger	Social entrepreneurs are working to eliminate hunger and malnutrition by improving food systems and increasing access to nutritious food.	[19]
SDG 3	Good Health and	Social entrepreneurs are working to improve health and well-being by providing access to	[20]

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Pandurang Patil, Assistant Professor

From

Zeal Institute of Business Administration, Computer Application & Research, Pune

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Indian startup ecosystem: Literature review

Dr. Madhavi Shamkuwar¹

Assistant Professor

Dr. Rahul More²

Assistant Professor

Prof. Pandurang Patil³

Assistant Professor

1. Zeal Institute of Business Administration, Computer Application & Research, Pune
2. Sinhgad Institute of Management & Computer Application, Pune
3. Zeal Institute of Business Administration, Computer Application & Research, Pune

Abstract

The growing culture of startups/entrepreneurs is supported by government of India to promote the local products and ensure the reduction in import. This year financial budget also provided an option to create One Person Company (OPC) which is also another initiative to promote startup culture in India. Since, past five years many startups have grown with an exponential speed because of their unique ideas and products. This paper is mainly concentrated to analysis the funding support which is most essential part of any small-scale business. This paper describes various types of schemes and funding options are available in-context with investors.

Keywords: Indian Startup Ecosystem, Startups Schemes, Funding, One Person Company (OPC)

I. Introduction:

India has undergone significant technological advancement and evolution of innovation over the past few decades. Here are some key developments in various fields. India is now a major player in the global IT industry, with a number of top IT companies based in the country. The Indian IT industry has also contributed significantly to the development of products, software, and services for global markets. This has led to a rapid increase in IT exports and an increase in job opportunities in the sector. In 1990s, the basic infrastructure and the facilities required for Physical Infrastructure, skilled faculties, Curriculum, Industry Linkages, Research Facilities were well established.

II. Brief about Startups

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1.A. P. RAVICHANDRA, 2G.ESHWAR, 3MD SOHAIL, 4S.PRADEEP & 5G.SI RYA VARDHAN; CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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23. STABILIZATION OF BLACK COTTON SOIL BY USING BIO-ENZYMES

1Dr. M. VENKATESHWARLU, 2D.MOUNIKA, 3B.MARUTHI, 4S.HARSHITHA & 5MD.SAMIUDDIN; CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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24. Indian startup ecosystem: Literature review

Dr. Madhavi Shamkuwar Prof. Pandurang Patil ; Zeal Institute of Business Administration, Computer Application & Research, Pune

Dr. Rahul More; Sinhgad Institute of Management & Computer Application, Pune

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Social media analytics for societies and businesses: Bibliometric analysis

Authored by:

Mr. Jayesh Katkar, Assistant Professor

From

Zeal Institute of Business Administration, Computer Application & Research, Pune

Has been published in

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Social media analytics for societies and businesses: Bibliometric analysis

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⁴Assistant Professor, Sinhgad Institute of Management & Computer Application, Pune

Abstract:

By 2022, there are expected to be 4.62 billion active social media users, or 58% of the world's population, and this number is expected to increase quickly. Through social media, the consumer in this new era can communicate directly with other people, businesses, and the government. Social media is without a doubt the most abundant source of human-generated text input. Opinions, feedbacks, perspectives, thoughts, and critiques offered by internet users represent attitudes and sentiments toward particular topics, products, companies, or services in many ways. The gigantic amount of heterogeneous data thus generated through various social media platforms provides a rich and a collaborative way for consumers to stay connected across both public and private forums.

To acquire a broad perspective on social media big data analytics, this study provides an overview of recent studies in social media, data science, and machine learning.

We further investigated the various applications and uses of social media analytics tools inside local government in our research and discovered that social media analytics may be incredibly useful for the government in both exceptional events and everyday operations. The main uses of social media analytics are highlighted, along with prospective research questions and problems that merit investigation, such as enhancing information flow and using analytics for everyday tasks.

To fulfil the need and offer clarity, we develop a taxonomy on social media analytics. This research effort includes discussing supporting data types, tools, and approaches. As a result, selecting the social data analytics that best meet their demands will be simpler for researchers.

Keywords: social media analytics, artificial intelligence, bibliometric analysis, social media methods, social media techniques, social media platforms

I. Introduction

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A STUDY ON STUDENTS PREFERERNCES ABOUT USAGE OF GOLDEN JEWELLERY

Manoj Kale, Sairaj Deshmukh, Mahesh Zalte, Ganesh Pawar, Sagar Misal, Dr. B. J. Mohite
Zeal Institute of Business Administrator, Computer Application & Research, Narhe, Pune

Abstract:

This study includes students' preferences for the use of gold jewellery from both an economic and social standpoint. In today's expensive world, survival is critical, so we must learn to be financially self-sufficient. Students are the next generation's future. As a result, we took the study and came up with some recommendations that we believe are critical. We have table data and charts to understand this study. Gold is primarily encouraged for physical purchase and sale, as well as for decorative purposes. It is valued as a vehicle for savings and investment, and it is a popular investment in India. Jewellery serves as both adornment and security in times of trouble. It is usually expensive, and it can be sold at any time when money is required. In India, women receive jewellery at various stages of their lives, including birth, puberty, marriage, and motherhood. Customers may become easily distracted when a product is expensive, purchased only occasionally, and particularly self-expressive.

Keywords: Golden Jewellery, Student Preferences, Usage, Young, Investment.

Introduction:

In India, gold is primarily encouraged for physical purchase and sale, as well as for use as decorations. It is valued as a savings and investment vehicle, and it is a popular investment in India. Jewellery is not only for admiration, but also for security in times of trouble. It is typically expensive, and it can be sold on any occasion when money is needed. Women in India are given jewellery at several stages of their lives, including birth, puberty, marriage, and motherhood. When a product is pricey, purchased only occasionally, and particularly self expressive, customers may become easily distracted. It is a learning process for purchasers to build product beliefs, attitudes, and make informed purchasing decisions. Indian marketers should be heavily involved in the consumer's information gathering and evaluation activity; they should make it easier for consumers to learn about product-class qualities and their significance. Also, Gold is rare among metals. In contrast to other metals generally gold, the shiny precious yellow metal creates some emotional attachments among folks.

Nowadays jewellery industry is one of the fastest emergent and foreign exchange earner industry in the Indian economy. Jewellery has been used by the Indian for both its aesthetic as well as investment purposes. Jewellery is a type of accessory that includes necklaces, rings, bracelets, watches, and earrings, etc. Jewellery is being designed for men, women, and children and can be made from a variety of different categories.

DRONE BASED IOT SOLUTION FOR HANDLING EMERGENCIES AROUND US

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Abstract

Around us, there are several emergencies, both natural and manmade. A robust service-based infrastructure is needed to handle this and provide assistance in a timely manner. In this paper researchers are intended to deliver a solution which will provides an outline of the emergencies affecting our Society and an IoT based drone using solution to address them. While delivering the solution researchers has focused on use of smart wearable's, alarms, helpline call etc. The paper has elaborated the importance and usage of IOT from such emergency services. Along with this we have also considered the cloud-based usage to deliver the services. Further researcher has also studied the mechanism used in other countries on similar front. This research is not only based on to deliver or suggests the solution but we have also focused on minimizing the cost associated with the use of these applications.

Keywords –

Cloud computing, Smart Drone, Internet of things,

I. INTRODUCTION

The Internet of Things (IoT) is a highly interconnected network of diverse objects, including tags, sensors, embedded devices, handheld gadgets and back-end servers. It offers new services and applications for the automation of the Industrial and residential actors as well as the electric power grid and medical care. While the IoT is concentrated on the end points and the connectivity of physical items with one another and with people. The inventive components of IoT have more potential when used in drones and in our helpline system.

Cloud: Cloud computing plays a critical role in the IoT ecosystem, providing the infrastructure, platform, and services required to support the massive amounts of data generated by IoT devices. Cloud is important in IoT for scalability, data management, security, Remote access and control, cost effectiveness.

II. NEED:

consider an emergency situation when there is a fire in a building, road accidents also senior citizen assistance, Natural disasters, etc. someone call the helpline system, then quick services to the victims with save life moto and government schemes guidance to recover from finical problems. Death due to lack of emergency medical attention-

- Late of emergency medical facility cardiovascular diseases are leading causes of death globally.
- for the first six months of 2021 deaths due to heart attacks increased during travelling in road & in that situation need emergency assistance to handle the situation.
- 47% deaths are occurred due to lack of medical emergency attention.
- More crucial to ensure timely medical responses for Saving lives.

Emergencies Around Society:

- Road Accident
- Fire Hazard's
- land scaping
- Senior citizens assistance

The solution will work in below format-



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A Comparative Study of Feature Reduction Techniques on the CICIDS2019 Dataset

Authored by:

Dr. Babasaheb J Mohite, ASSOCIATE PROFESSOR

From

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A Comparative Study of Feature Reduction Techniques on the CICIDS2019 Dataset

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Article Info

Keywords:

Feature selection, Intrusion Detection Systems, CICIDS2019 dataset, Feature Elimination Technique.

ABSTRACT

Feature selection is a critical pre-processing step in Intrusion Detection Systems (IDSs) that involves identifying and selecting the most relevant features from a dataset to improve detection accuracy and reduce computational costs. This study presents a comparative analysis of five feature selection techniques on the CICIDS2019 dataset, a standard benchmark dataset for evaluating IDSs. We evaluated the performance of the feature selection techniques using three classification algorithms and assessed their effectiveness in terms of detection accuracy, computational cost, and the number of selected features. Our results show that the Recursive Feature Elimination (RFE) technique outperformed other methods in terms of detection accuracy, with an average accuracy across all classification algorithms. Furthermore, the RFE technique selected the fewest features, resulting in significantly reduced computational costs.

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INTRODUCTION: Intrusion Detection Systems (IDSs) are crucial for maintaining the security of computer networks. They are designed to identify and prevent unauthorized access or attacks on a network. However, IDSs often require large amounts of data to perform accurate detection, which leads to high computational costs and time-consuming processing. One way to address this challenge is by using feature selection techniques to identify and select the most relevant features from the dataset, thus reducing the computational cost and improving the detection accuracy.

Feature selection techniques [1] have been widely used in various fields, including computer networks, to improve the performance of machine learning algorithms. These techniques aim to select a subset of features from the original dataset that captures the most relevant information and discards the redundant or irrelevant features. This process not only reduces the computational cost but also improves the accuracy of the classification models. The research [2] A deep learning approach for network intrusion detection system. The article on CICIDS2019 dataset is a standard benchmark dataset for evaluating IDSs. It contains 80 features extracted from network traffic captured on a



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Abstract

Space particles are a major situation over the gap that passed off in the modern-day as an ever-developing orbital populace. To get rid of an area particles item from its orbit, many techniques have been proposed. This space debris is Gathering at an excessive price and possibilities of unfavorable running satellites are pretty possible. So, it's far crucial and Vital to music and takes away the gap junk to avoid accidents and different dangerous sports in and around space. Getting rid of area particles from the Earth's orbit with the help of various technologies is a posing project for researchers. Energetic debris elimination (ADR) has become a sizeable element these days for medical and commercial space Management. Many principles and strategies, which generally tend to bring the accumulating risk to a halt had been classified And reviewed. In this paper, the point of interest will be on numerous secure disposal technology which can use to prevent the loss of Spacecraft to debris collision. This area debris performs a vital role in making plans for the missions of spacecraft and releasing automobiles. This paper illustrates the current technology and current scenario of lively area particles on earth's orbits. In the Prospect, space particles may be due to collisions alongside satellite tv for pc and spacecraft because of the variety of orbital items Persevere to assess at a price advanced to the fee at which normal forces eliminate from orbit.

Key Words:

Space debris, ADR, LEO, Removal Technologies, Orbits, Spacecraft, Collision.

1. INTRODUCTION

Space debris poses a major functional threat for aerospace operations. Active space debris has been predictable as a threat factor to any space operations. Agencies and concerned labor force are bothered with the growing quantum of space debris. Also, it includes possessors and agencies that launched the manned operations and precious satellites into the space. Considering the growing pitfalls, some nations began to take proactively step to dwindle the conformation of debris or cover means from debris. The end of this paper is to estimate the colorful ongoing technologies proposed for

A STUDY ON COMPUTER ASSISTED EDUCATION A TOOL FOR ENHANCING STUDENT LEARNING OUTCOMES

Samiksha Chavan¹, Sai Gaikwad², Ashutosh Pawar³, Jay Yele⁴, Dr. B. J. Mohite⁵

^{1,2,3,4,5}Zeal Institute Of Business Administration Computer Applications And Research, Narhe, Pune.

ABSTRACT

This research paper explores the use of computer-assisted education as a tool for enhancing student learning outcomes. The paper examines the various forms of Computer Assisted Education, including online courses, educational software, and adaptive learning systems, and their effectiveness in delivering education to students. The paper also explores the benefits and challenges of implementing computer assisted education in the classroom, as well as the potential for computer assisted education to be used as a supplement to traditional classroom instruction. The paper concludes by discussing the future of computer assisted education and its potential to transform the field of education.

Keywords: Computer Assisted Education, Adaptive Learning, Technology In Education, E-Learning, Blended Learning, Educational Technology.

1. INTRODUCTION

Computer-assisted education has emerged as a powerful tool for delivering education to students of all ages. With the advent of technology, many forms of computer assisted education have become available, including online courses, educational software, and adaptive learning systems. These technologies have the potential to enhance student learning outcomes and provide new opportunities for educational delivery.

The use of computer assisted education in education has been a topic of considerable research in recent years. Studies have shown that computer assisted education can be an effective supplement to traditional classroom instruction, providing students with greater flexibility and opportunities for self-paced learning. Additionally, computer assisted education can help to address the unique needs of individual students, such as those who are at risk of falling behind or those who are struggling to keep up with the pace of a traditional classroom.

Despite the potential benefits of computer assisted education, there are also challenges associated with its implementation in the classroom. One of the main challenges is the lack of teacher training and support, as well as the limited availability of appropriate educational materials. Additionally, there are concerns about the cost of implementing computer assisted education and the potential for it to replace traditional classroom instruction altogether.

This research paper aims to explore the use of computer assisted education as a tool for enhancing student learning outcomes. The paper will examine the various forms of computer assisted education, including online courses, educational software, and adaptive learning systems, and their effectiveness in delivering education to students. The paper will also explore the benefits and challenges of implementing computer assisted education in the classroom, as well as the potential for computer assisted education to be used as a supplement to traditional classroom instruction. Finally, the paper will discuss the future of computer assisted education and its potential to transform the field of education.

2. STATEMENT OF PROBLEM

In this research, researcher has tried to dugout some perspectives in using computer system in enhancing students learning process. Hence the title "A STUDY ON COMPUTER ASSISTED EDUCATION A TOOL FOR ENHANCING STUDENT

LEARNING OUTCOMES" has come up for in-depth study.

3. OBJECTIVE OF STUDY

The objective of this study is to investigate the use of computer-assisted education as a tool for enhancing student learning outcomes. Specifically, the study aims:

1. To examine the various forms of computer assisted education, including online courses, educational software, and adaptive learning systems, and their effectiveness in delivering education to students.
2. To investigate the benefits and challenges of implementing computer assisted education in the classroom, and the potential for computer assisted education to be used as a supplement to traditional classroom instruction.
3. To evaluate the effectiveness of new forms of computer assisted education such as virtual reality and gamification in improving student learning outcomes.

A STUDY ON METAVERSE IMPLEMENTATION IN EDUCATIONAL PLATFORM

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ABSTRACT

The metaverse is a virtual world that can be accessed through the internet, and it has the potential to be used as a platform for education and training. The concept of a metaverse for education refers to the use of virtual reality or other immersive technologies to create a shared, interactive, digital environment that can be used for educational purposes. In a metaverse for education, students and teachers can meet, communicate, and collaborate in a virtual space, rather than being limited to a physical location. In the context of education, the metaverse presents an opportunity to create immersive, interactive learning experiences that can supplement or even replace traditional forms of classroom instruction. The metaverse provides a variety of tools and resources for creating, sharing and consuming educational content, which can help teachers to design interactive and engaging lessons, and students to learn at their own pace, based on their own interests and needs.

Keywords: Metaverse, Augmented/Virtual Reality, Artificial Intelligence, Virtual World, Mixed Reality.

1. INTRODUCTION

In 1992, the metaverse made its debut. Although many people thought the phrase "Metaverse" was new, the idea behind it is not. But all was focused on the Metaverse because of Zuckerberg's press release. A statistical examination of the metaverse technology, which has been debated in the literature since the 1990s, is presented in this paper. For the metaverse, a brand-new and popular topic, a field investigation is specifically conducted. In this approach, descriptive data on journals, organizations, well-known scholars, and countries in the area are offered. Additional evaluation of hot-button issues and highly cited researchers is also provided.

We found that there were few studies in the literature on the historical development of the metaverse, whose popularity peaked in recent months. Additionally, it can be observed that the topic is actively addressed by virtual reality and augmented reality technology, and that the sectors of education and digital marketing are interested in the issue. In the next 15 to 20 years, the metaverse will likely have influenced many aspects of our life, utilizing the possibilities presented by advancing technology.

There are several potential benefits to using a metaverse for education. For example, it can allow students and teachers to interact and engage with educational materials in a more immersive and interactive way, and can provide a more flexible and convenient platform for learning. It can also enable students to access educational resources and experiences that might not be available in their physical location.

There are also some challenges to using a metaverse for education, such as the need to ensure that the virtual environment is accessible and usable by all students, and the need to ensure that it is secure and private. Additionally, there may be technical and logistical issues to consider, such as the need for appropriate hardware and software, and the need to ensure that students and teachers have the necessary skills and knowledge to use the metaverse effectively.

Some of the key characteristics of the metaverse include:

- **Persistence:** The metaverse is a persistent space, meaning that it exists and evolves over time, even when individual users are not present.
- **Interactivity:** The metaverse allows users to interact with each other and with virtual objects and environments in real-time.
- **Immersion:** The metaverse is designed to provide a sense of immersion for users, allowing them to feel as if they are physically present in a virtual world.
- **Portability:** The metaverse is accessible from a range of devices, including computers, smartphones, and virtual reality headsets, allowing users to access and interact with it from anywhere.

Everything is connected to the Internet, which is referred to as the "Internet of Things" (IoT). Users can transition

DESIGN OF EFFICIENT MULTI CLIENT – SINGLE SERVER APPLICATION USING SOCKET PROGRAMMING

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ABSTRACT

In recent era web communication has become mandatory for all domains. When it comes to web communication, servers always have loads on it for communication. There are various server types which support this like single server communication, multi-client communication etc. There is a need to provide an effective way of communication between client and server. The present study will focus on the detailed overview of designing a client- server application that enables the operating of a single server from multiple clients using socket programming. Authors of this paper believe that the provided solution is effective as it reduces the time required in the communication. The authors of this paper will endow with the design of an application named "Remote Server Communication" using Java, TCP, UDP communication layers to demonstrate the communication in a distributed computing environment using socket programming concepts. We have tried to make utmost use of the latest technologies which will definitely enhance and support the topic. The current paper has delivered the insights on the concept of socket programming along with distributed computing architecture. The main objective behind this paper is to recognize the overview of designing a client-server application. The main principle of this research is to efficiently decrease the time consumption in making recursive calls to the server and making a concurrent server rather than an iterative server that can asynchronously manage multiple clients.

Keywords: Socket Programming, Threaded Server, Concurrent Server, Threading, Distributed Computing, Java.

Introduction

In Client server architecture the first one who is activated is the server. Server always looks for the call initiation from the client. Upon receiving the call from the client, the server reports the status of the clients where it mentioned the total number of servers connected to the respective networks. Multiple clients requesting servers at a single time may cause problems in the communication process. There will be communication delay between client and server. Further to add more liberty to the network use of connection oriented and connection less both approaches are considered.

A multi-client application can deliver an efficient solution by using socket programming. The basic approach behind this work is connecting multiple computers together to work efficiently and resolve the network related problems. We believe that implementation of such a concept will enhance scaling and solve complex problems associated with network communication. The main objective of the existing paper is to deliver insights on the overview of designing a client- server application. The main principle of this research is to efficiently decrease the time consumption in making recursive calls to the server and making a concurrent server rather than an iterative server that can asynchronously manage multiple clients.

A multi-client - single server is a distributed computing architecture in which there is a single server machine that handles multiple client machines. Multi server has the potential to deliver two or more services at a glance and this supports our idea to reduce time complexity using this network and offer the network a speedy communication. There are plenty of models available but for present study researchers have considered the use of socket programming. Using this architecture, multiple clients can connect and process data on the server machine without redundancy. In the native approach, if multiple clients had to connect to a server, they would

"ROLE OF IT IN WOMEN SAFETY"

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ABSTRACT

The role of information technology in women's safety has been a topic of growing interest in recent years. The use of technology, including mobile apps, GPS tracking, and social media, has been proposed as a means to enhance the safety and security of women. This literature review paper examines the current state of research on the use of IT in women's safety, including the ways in which technology is being used to prevent and respond to violence against women, as well as the challenges and limitations of such efforts. The paper also discusses the potential of future developments in IT, such as artificial intelligence and machine learning, to further improve women's safety. Overall, the paper argues that while technology has the potential to play a significant role in enhancing women's safety, more research is needed to fully understand the effectiveness of different technologies and to address ongoing challenges such as privacy and accessibility.

Keywords: Information Technology (IT), Women's Safety, Mobile Apps, GPS Tracking, Emergency Services Gender Inequality, Emergency Response, Security.

I. INTRODUCTION

The issue of women's safety has been a longstanding concern in many societies around the world. Despite advances in gender equality and women's rights, women continue to experience high levels of violence and discrimination. Information technology (IT) has emerged as a potential solution to enhance women's safety, with a wide range of technologies being developed and implemented to prevent and respond to violence against women. The use of mobile apps, GPS tracking, and social media, for example, has been proposed as a means to empower women and enhance their safety.

However, the effectiveness of these technologies and the challenges they present are still not fully understood. In addition, the fast-paced nature of technological advancements means that new and emerging technologies, such as artificial intelligence and machine learning, may have the potential to further improve women's safety. Therefore, this literature review aims to examine the current state of research on the role of IT in women's safety, including the ways in which technology is being used to prevent and respond to violence against women, as well as the challenges and limitations of such efforts. Furthermore, this paper also aims to explore the potential of future developments in IT to further improve the safety of women.

This literature review is important because it provides an overview of the current state of research on the use of IT in women's safety and highlights the potential of technology to enhance women's safety. Additionally, it also identifies the challenges and limitations that need to be addressed to effectively use technology to improve women's safety. The findings of this review will be useful for policymakers, practitioners, and researchers working to address the issue of women's safety.

II. STATEMENT PROBLEM

The problem being addressed in this literature review is the lack of understanding of the effectiveness of using information technology (IT) to enhance women's safety and the challenges that need to be addressed to effectively use technology to improve women's safety. Despite the increasing availability of technology, including mobile apps, GPS tracking, and social media, to prevent and respond to violence against women, the effectiveness of these technologies and the challenges they present are still not fully understood. This literature review aims to examine the current state of research on the role of IT in women's safety, including the ways in which technology is being used to prevent and respond to violence against women, as well as the challenges and limitations of such efforts. Furthermore, this paper also aims to explore the potential of future developments in IT to further improve the safety of women.

This literature review will provide an overview of the current state of research on the use of IT in women's safety and highlight the potential of technology to enhance women's safety. Additionally, it will also identify the challenges and limitations that need to be addressed to effectively use technology to improve women's safety.



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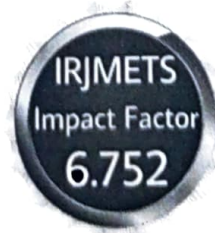
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CYBER SECURITY AND ASSETS

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ABSTRACT

Cybersecurity is a rapidly growing field that aims to protect computer systems, networks, and sensitive information from unauthorized access, use, disclosure, disruption, modification, or destruction. The field covers a wide range of topics, including network security, data security, cloud security, and mobile security, as well as legal and ethical issues related to cybersecurity. With the increasing dependence on technology in everyday life, it is essential for organizations and individuals to take appropriate measures to protect themselves against cyber-attacks. Research in cybersecurity focuses on developing new technologies and techniques to protect against cyber threats, as well as understanding the motivations and methods of attackers. This includes the development of secure software and hardware, the use of encryption and authentication, and the implementation of security policies and procedures. Additionally, research in the field also focuses on understanding the legal, ethical and societal implications of cybersecurity.

Keywords: Malicious, Stealing Identities, Vulnerabilities, Child Pornography, Cyberstalking.

I. INTRODUCTION

What is Cyber Security?

Cyber security is the operation of protecting computers, servers, mobile devices, networks, and data from malicious attacks. It's also known as information technology security (IT) or information security (IS). A successful cybersecurity approach has multiple layers of protection spread across the computers, networks, programs, or data that one propose to keep safe. It's also control that covers how to defend devices and services from electronic attacks by nefarious actors such as hackers, spammers, and cybercriminals. While some components of cyber security are designed to strike first, most of today's professionals focus more on determining the best way to defend all assets, from computers and smartphones to networks and databases, from attacks.

What is Cyber Crime?

Cybercrime, also called computer crime, the use of a computer as a tool to further illegal ends, such as committing fraud, trafficking in child pornography and intellectual property, stealing identities, or commit a breach of privacy. Or

Cybercrime is a crime that involves a computer and a network. The computer may have been used to perform the crime and in many cases, it is also the target. Cybercrime may be a danger to a person or a nation's security and financial health.

Objective of the study

1. To study cybersecurity concept
2. To know what technology protect us with cybercrime.
3. To provide information about cyber security and cybercrime.

II. LITERATURE REVIEW

A literature review on cyber security would involve researching and analyzing existing literature and studies on the subject. This could include topics such as network security, computer forensics, information security management, and threat intelligence. The review would likely cover a range of areas, including technical measures for protecting against cyber-attacks, organizational and management approaches to cyber security, and the legal and ethical implications of cyber security. Additionally, the review would likely examine the current state of the field and identify areas where further research is needed.

There are conclude how to protect from cybercrime or cyber attack

- In cyber world security is most important aspect when we are dealing with cyber attacks in virtual world need to accumulate the problems with in real time situation

THE RUDIMENTS AND EXPANSION OF CLOUD COMPUTING

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ABSTRACT

Cloud computing culminated and evolved after Amazon launched the unique and exceptionally different cloud services in 2006. It is especially befitting to Hong Kong due to the massive amounts of data processed here on occurring every day basis in a olio of sectors, and there are signs that, despite a slow momentum in the initial years, local company subscriptions to cloud services will soon skyrocket. This research topic, primes the contents of cloud computing in computer science as its far reaching conceptualizations in many sectors of computing, mostly big data, which is a immense theory without cloud computing.

Cloud computing, the most anticipated and counted utility of computing world, urges to be conceivable to impend a high fragment business, building software with high anticipation for service and persuading how business in IT hardware is studied, planned. Initial developers develop with advance groundbreaking uses concept for Internet services no need of huge capital spending's in human resources or hardware. Hence it is not need to concern about overcollateralization for a service whose fame does not meet their required expectations, degenerative costly resources, or under utilizing the fact for one that becomes wildly popular, missing out on potential revenue and customers. Moreover, businesses of huge batch-oriented tasks can get the results as rapid as their programs can scaled up also for that reason they are using 1,000 servers for one-hour which almost costs the same as using one server for 1,000 hours.

Keywords - Cloud Computing, Service, Deployment, Rudiments

I. INTRODUCTION

While working with ARPANET in the year 1960s, Joseph Carl Robnett Licklider enhanced the development of Cloud Computing to band together with data and people from anywhere at any moment in time. CompuServe was an American online service provider brought in its users to a chunks of small volume of disc space can be used to store any files they wanted to upload in 1983. Classically, cloud computing is a term where the distribution of computing services including databases, servers, storage, networking, intelligence, analytics and software by the Internet ("the Cloud") in keeping to provide faster revolution, more economies of scale and flexible resources. Cloud computing is shipment of computing services such as analytics, networking ,databases, intelligence, servers, storage and other services via the Internet. Cloud computing fluctuates from on-premises data centers. Lots of people are already familiar with Cloud

Computing services such as email services or Google Docs, AWS Lambda, AWS Compute Elastic, Google Engine Cloud, and are the most popular Cloud Computing products. The other major outward applications "Mobility One" of cloud computing is the mobility it provides, both to commercial and recreational users. Amazon Web Services, Google Cloud Platform, and Microsoft Azure from Microsoft are among the most well-known cloud computing services. Cloud computing is elastic in nature. Cloud-based services are idyllic for businesses with fluctuating or amplifying bandwidth requirements as per need. Cloud computing enables the entry of accomplishment and data from any location in the world and from any device with an internet connection.

If your needs increase in size, you can easily enlarge your cloud capacity by putting into service's remote servers. It is Cost savings. Cloud computing also provides businesses with easily operable computing resources, reducing the cost of acquiring and maintaining. Dropbox, Facebook, and Gmail are all examples of cloud computing. The cloud is used to store files. Financial Services, Banking. Consumers transfer financial data to cloud computing service providers. Health care, education, and government. Massive amounts of data analytics. Communication. Business Procedure. Cloud Computing Varieties There are three major types of cloud environments, also referred to as cloud distribution models. Assimilation of application for cloud computing is entranced as services off the Internet and further with system software and hardware in centers that can be accounted for using services. These services is known as SaaS. A majority of vendors created their products using terms like IaaS and PaaS, but we sidestep them as its sanctioned meanings differ. The dissimilarity among highlevel infrastructure and a

Smart city - An assessment of information technology dimensions

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ABSTRACT

Since the primary technology solutions needs are satisfied in developed countries, they are also ready for disaster management. In contrast, essential solutions are not being fully developed in developing countries. The extensive use of technology to provide intelligent solutions to the problems faced by the region's people is the aim behind Smart City. This technology primarily exists in mobile phones and other handheld smart devices. Smartphones have become the basic need of any person, so will be the case with Smart cities. With the innovation of technology, the city's assets are made more secure, be it people, infrastructure and following of discipline or policies for mankind's betterment. This digital infrastructure enhances every living thing's quality of service and livelihood. The essential features of a smart city are digital infrastructure, e-governance and intelligent solutions to the problems faced in daily life. Hardware, software, and communication technologies are the digital ecosystem required for making cities smarter. IoT, sensors, Big data analytics, connectivity, and smart apps integrate the stakeholders and provide them with services.

KEYWORDS: Smart city, Top 50 cities, smart parameters, smart energy, smart peoples, smart infrastructure, smart governance, smart mobility.

1. INTRODUCTION

A city is a region with an extensive human population and where the people are facilitated with modern amenities and infrastructure. It has better governance, and with infrastructure, the life of people is much smoother than that of a village setting. Therefore, the term 'Smart city' is a 'city' with 'smart' solutions to the city people's problems. The definitions vary from city to city and from country to country. For developed countries, a Smart city is about the utilisation and implementation of 'Smart solutions' to the problems and issues faced. In contrast, it is the incremental development of Information Technology



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ONLINE WHITE BOARD THE FUTURE OF TOMORROW

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ABSTRACT

This paper focuses on a whiteboard project that was created utilising web development, which included frontend essentials like HTML, CSS, and JS as well as backend fundamentals like Mongo-DB, Node.JS, Express.JS, and others. online whiteboard is a real-time tool that enables users to sketch or write significant points during a meeting. It may also be utilised for educational purposes by assisting the instructor in thoroughly outlining the subject matter while students are taking lessons online. Users can discuss ideas in real time thanks to its user-friendly layout. Additionally, it enables users to store the state of the browser at any time on their local drive for later use.

Keywords: Virtual board, Whiteboard, Online Whiteboard, Online Learning, Education, Technology

I. INTRODUCTION

Whiteboard is a vital tool being used by thousands of schools and teachers as COVID-19 continues to have an influence on people all around the world. To ensure that students have the best remote learning experience and to aid in maintaining student engagement. Due to the COVID-19 lockdowns, everyone is now working from home, which has resulted in a huge increase in online meetings and video conferences

. Systems that enable collaborative sessions are needed by many educational institutions and design firms. The main issue with the whiteboards that are now available online is that the most of them are either hidden behind a payment wall or need purchases for the majority of their functionality, making it challenging for smaller firms to afford them. This makes online communication and the exchange of ideas challenging.

Our whiteboard aims to find solutions to these issues.

With the help of interactive, collaborative technology and the wonderful simplicity of an analogue whiteboard, our Whiteboard creates a brand-new environment for the entire class to communicate, brainstorm, and create in real time. It will be a publicly accessible, cost-free online whiteboard that anyone can utilise.

II. SCOPE OF THE PROJECT

Specifically for the finest online experience, Whiteboard was created. It transcends the physical constraints of a conventional whiteboard and incorporates the brainstorming possibilities that a versatile cloud network makes possible. While freehand drawing is feasible and effective, it doesn't seem to be the main focus.

Whiteboard is made to be quick and simple to use; users can jump online without logging in or downloading any apps, invite friends or co-workers, and quickly share ideas or create visual explanations. Lessening the emphasis on the office whiteboards can be replaced directly and with longevity.

Post-it notes with an add-on feature let users jot down thoughts or feedback to encourage teamwork and provide feedback without drawing attention to the original idea.

The White Board is designed to be an infinite canvas, so using its special mouse controls for navigation is simple. Boards can also be downloaded as backups, saved as images or PDFs, or saved to Google Drive.

Anyone on your team, or even other visitors, can jump in and collaborate very quickly with quick links. Starting a board, inviting your team, and having them jump in should only take a few seconds. Anytime and anywhere, share your experience. Time and distance are no longer a problem.

Make each student feel included. Allow absent students to participate just as if they were there. Utilize shared whiteboards to facilitate interactive learning in the classroom. Using a public link, invite visitors from outside. Allow your future students and parents to become familiar with your knowledge and working style. Consider teaching. To help students understand and retain your lessons, import JPEG, PNG, and PDF files.

Use the text and pen tools to communicate your ideas and knowledge. Uploading lovely, relevant images will enhance the visual appeal of your work. Enjoy a limitless colour palette and fundamental geometric shapes like



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Role Of Modern Technology: New Era Of Teaching And Learning Pedagogy.

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Abstract

Modern Technology is God's gift for every learner. As technology has been changing day by day it's also changing the way we live today. This paper proposes a contrast between technologies of learners and technologies of learning to explain how technologies has influenced teaching and learning in and out of schools/colleges. Also many complex and critical problems can be solved easily with the help of modern technology. Every learner feels bored while learning any topic manually but technology has made learning and teaching more enjoyable that learners love to learn new things they think off. Technology has made learning so easy that everyone who loves learning can grab various knowledge, certification, and also learn multiple courses simultaneously.

Keywords: Modern technology, Positive effects of learning new technology, Negative effects of learning new technology, Artificial Intelligence, Blockchain.

Introduction:

What is Modern Technology?

Modern technology is the technology that makes it easier for students to search information quickly and accurately on fingertips. Now-a-days search engines and e-books are replaced by the traditional way of teaching like textbooks. It's a really interesting question when you were wondering about the old days when people bought different reference books and carried a lot of heavy loads to learn new things at that time there was no concept of E-learning. Today, technology is changing so rapidly that in a few years the concept known as virtual learning environments will disappear and new concepts such as e-learning, audio and visual technology and artificial intelligence will emerge.

Objective of the Study

1. To research and analysis of the technologies used in education.
2. To improve the quality of education and improve the learning process.
3. To improve pedagogical transactions anywhere, anytime and to increase learning through various digital tools.
4. To provides teachers with many e-learning tools such as Gamification, AR/VR, smartboards, etc
5. To increase the efficacy of the teaching and learning process in order to fulfil the demands of a rapidly changing era.



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TO STUDY THE IMPACT OF DIGITAL MARKETING ON BUSINESS GROWTH**Gopal Pardhi*¹, Rohit Karale*², Omkar More*³, Akash Dhande*⁴, Dr. B. J. Mohite*⁵**^{1,2,3,4,5}Zeal institute of business administration computer application and research, Narhe, Pune,411041.**ABSTRACT**

The purpose of this study is to investigate the impact of digital marketing on business growth. The research will examine the various digital marketing techniques and strategies used by businesses and their effectiveness in driving growth. The study will also explore the challenges and opportunities faced by businesses when implementing digital marketing campaigns. Data will be collected through surveys and interviews with business owners and managers, and analyzed to determine the relationship between digital marketing and business growth. The findings of this study will provide valuable insights for businesses looking to improve their digital marketing efforts and drive growth in the digital age.

Digital marketing is important because it aligns with the way consumers makes purchasing decision. Digital Marketing has become one of the essential entities of various kinds of business. Digital marketing knew online advertising, is the promotion of a product to join with prospective customers spending their time on the internet in another word is digital communication. This research paper prominence on digital marketing in business development. The reason for study is to happen with the digital marketing model in business. This paper initiates with an introduction to and then its best part of the advantage of digital marketing in business growth.

Keywords: Business, Digital Marketing, Growth, Impact, Newspaper, Media Post, Strategies, Market Places.

I. INTRODUCTION

In today's digital age, businesses of all sizes and industries are turning to digital marketing to reach and engage with customers, promote their products and services, and drive growth. Digital marketing encompasses a wide range of tactics and tools, including search engine optimization, social media marketing, email marketing, and online advertising. These tools allow businesses to reach a global audience and target specific demographics with precision and efficiency.

However, as the digital marketing landscape continues to evolve and competition increases, it can be challenging for businesses to effectively leverage digital marketing to drive growth.

The purpose of this study is to investigate the impact of digital marketing on business growth. The research will explore the various digital marketing techniques and strategies used by businesses and their effectiveness in driving growth. The study will also look at the challenges and opportunities faced by businesses when implementing digital marketing campaigns. The findings of this study will provide valuable insights for businesses looking to improve their digital marketing efforts and drive growth in the digital age.

Digital Marketing is a current way to extend your business and level up its brand value, so today every businessman generates a website in the name of their business.

Traditional marketing involves the use of tools like Television, newspapers, magazines, radio, paper, posters, banners, and wall paintings. Many companies went from house to house talking about their products and this marketing strategy is a tiresome and time- consuming task.

Present condition, that is probable to be overawed. Now the internet has provided many platforms for ma, for example, example Social media posts, White papers, Case Studies, Testimonials, Blog posts, Videos, E-books, Ige's, Podcasts, Ad Cand content.

People are more towards the towards internet and this is why digital marketing is growing sofast. Considerable knowledge of digital marketing and well-planned digital marketing strategy can help in reaching out millions of smartphone and tablet users.

According to statistics, almost 75% of google chrome users now have access to the internet on mobile devices. Without digital marketing. The business is mislaid out the chance to promote growth and scope the target audience. Digital marketing will be developing regularly in the near upcoming. So Digital marketing helps in expanding and promotingthe business worldwide.



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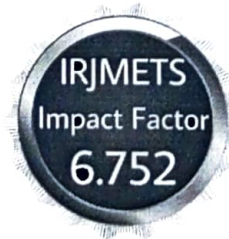
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STUDY ON E-WASTE CONCERNS AND TROUBLES IN INDIA

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ABSTRACT

The purpose of the current study is to identify the many problems and practical challenges that India is now experiencing with managing electronic waste. According to research by the Basel Action Network (BAN), which aims to stop the globalization of dangerous chemicals, 50 to 80 percent of the US's collected e-waste is transferred to countries including India, China, Pakistan, Taiwan, and several African nations. This is accomplished because recycling is available cheaper labor in these nations. E-waste export is also permitted in the US. Recycling and disposal of e-waste cause significant pollution in China, India, and Pakistan. China recently outlawed the import of e-waste. Since the informal sector in India is largely responsible for recycling e-waste and lacks the resources to handle either the growing volumes or some processes, there is an unbearable risk to both human health and the environment. The current methods of managing e-waste in India face a number of difficulties, including the difficulty of ineffective regulations, the deplorable and unsafe conditions of informal recycling, the low level of consumer awareness, and the unwillingness on the part of the stakeholders to address the issues.

Keywords - Electronic Waste, Electronic Trash, Biodegradable, Ethical Management.

I. INTRODUCTION

Electronic waste, or e-waste, is the garbage that we produce from extra, damaged, and outdated electronic devices. Millions of electronic items reach the end of their useful lives each year. If we do not properly dispose of electronics, a variety of toxic substances and materials are discharged into the environment. Millions of electronic items reach the end of their useful lives each year. E-waste is made up of a variety of expensive yet dangerous materials that could be hazardous to people's health. Tons of electronic goods are sent across the oceans every year, but after they are used, they turn into complex waste materials.

Statement of Problem

Up to 80% of the collected e-waste by recyclers is exported to other countries, including illegally exported e-scrap, which is a cause for worry. The improper management of electronics recycling in underdeveloped nations has resulted in a number of environmental and health issues. Sagging global prices for recycled goods have hurt profitability and led to company closures. More and more things are produced in ways that make it difficult for consumers to recycle, repair, or reuse them. Since the majority of e-waste is still sent to landfills, there is a lot of room for growth in recycling.

Objectives of the study

1. To understand the management of electronic waste from both a global and Indian standpoint.
2. To identify the numerous problems with India's practices for managing electronic trash.
3. To establishing ethical management procedures for disposing of electronic waste in India.

Scope of study

By recycling e-waste, we can advance the development of a wide range of pricey metals and other materials from electronics while conserving energy, lowering pollution, keeping landfill space, and generating employment. The EPA estimates that recycling one million computers can save enough energy to power 3,657 U.S. households for a year. In addition, recycling one million cell phones can yield 33 pounds of palladium, 35,274 pounds of copper, 772 pounds of silver, and 75 pounds of gold. On the other hand, recycling of e-waste reduces production waste. The Electronics Take Back Coalition estimates that the production of a single computer and monitor uses 1.5 tons of water, 530 pounds of fossil fuel, and 40 pounds of chemicals. A computer uses 81% of its energy during manufacture and not during operation. In order to formulate the best solutions for resolving the aforementioned problems in the future, this study must first identify the key problems with India's current system of managing electronic trash.



DESCRIPTIVE STUDY ON ARTIFICIAL INTELLIGENCE (AI)- WHY IS AI RULING THE WORLD?

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ABSTRACT

With the moving era, usage of Artificial Intelligence has reached to a different peak. Artificial Intelligence has the potential to greatly improve the efficiency of current economy. The fact that it can serve as a brand-new, all-purpose "method of invention" and change the way the R&D and innovation processes are structured, however, may have a more substantial impact. We distinguish finding a lot of evidence that there has been a "shift" in the importance of research on application-oriented learning since 2009, from automation-oriented applications like robots to the potential for current developments in "deep learning" to be used as a general - purpose creation technique.

Keywords: Artificial intelligence, Machine learning, Robotics, Unsupervised, Supervised, Dependability.

I. INTRODUCTION

Artificial Intelligence have an origin and a (relatively) lengthy history of scientific discussion. In the same decade ('50), artificial intelligence and robotics are first developed.

The two disciplines were difficult to distinguish from one another.

The concept of an "intelligent machine" naturally leads to robots and robotics, which is the rationale for this. One could argue that not all machines are robots, and Artificial Intelligence is undoubtedly interested in virtual agents (i.e., agents that are not physically embodied in a machine). On the other hand, a lot of the technological issues and fixes required for the development of robots are not addressed by artificial intelligence research.

In the 1970s, a distinct division between the two sciences can be seen as robotics begin to concentrate more on industrial automation while artificial intelligence make use of robots to show that machines are capable of acting in a variety of contexts.

Later, robotics was abandoned by AI researchers as their primary tested for artificial intelligence due to the challenges associated with creating robotic systems that can operate in unrestricted environments. On the other hand, robotics research sparked the creation of increasingly complex industrial robots.

When robots started to repopulate in the 1990s, this situation changed. The problems to be addressed in order to create intelligent robots has been acknowledged by the scientific community, and the creation of robots is once more seen as an example of an AI system. We will refer to this body of study as AI Robotics, which is the same as the paper's title. The opinions expressed in the study are those of AI research, which favor robots as a model of an intelligent agent. Some of the concerns covered in the present work have also been addressed in recent years by robotics experts, however the paper may not accurately reflect their perspective on artificial intelligence. Next, we examine the linkages and connections with other subjects covered and other fields, in this compilation.

Statement Of Problem :

The creation and use of artificial intelligence is fraught with a variety of possible issues and difficulties (AI). A few of these are - Unfair or discriminatory outcomes can occasionally result from AI systems reflecting the biases of the data they are trained on. **Lack of transparency and interpretability**-Some AI models are hard or impossible to grasp or explain, making it challenging to trust their judgement or spot any biases or faults in how they operate. **Safety and dependability** - AI systems can commit errors or exhibit unexpected behavior, which can have negative effects in certain situations (e.g. self-driving cars).**Security** - AI systems have the potential to be misused or attacked, and they may also be employed in damaging or malevolent ways. With the current study of AI, it is being observed that AI has the potential to cause employment displacement as well as

BLUE EYE TECHNOLOGY: NEED OF TOMORROW

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ABSTRACT

"Blue Eye technology is a cutting-edge field in the field of human-computer interaction that utilizes eye tracking and gaze detection to create more intuitive and efficient interactions between humans and computers. This technology has a wide range of applications, including in areas such as computer gaming, virtual and augmented reality, and assistive technology for individuals with disabilities. The literature review presented in this paper will examine the current state of the art in Blue Eye technology, including the various techniques and algorithms used for gaze tracking and analysis, as well as the potential benefits and limitations of this technology. Additionally, the paper will explore current and potential future applications of Blue Eye technology, as well as the challenges and opportunities for future research in this field."

Keywords: Blue Eyes Technology, Eye Tracking, Gaze Detection, Human-Computer Interaction, Assistive Technology.

I. INTRODUCTION

"Blue Eye technology, also known as eye tracking or gaze detection, is a rapidly developing field in the area of human-computer interaction. It involves the use of specialized equipment and algorithms to track the movements of the human eye, and interpret the gaze direction and focus of the user. This technology has the potential to revolutionize the way we interact with computers, making the experience more intuitive and efficient. The ability to track the gaze of a person can provide valuable insights into their attention, intentions, and emotions, which can be used to enhance the user experience and improve the performance of various systems. Eye tracking technology can be used in a wide range of applications, such as gaming, virtual and augmented reality, human-computer interaction, cognitive psychology, marketing and advertising, and assistive technology for individuals with disabilities.

The literature review presented in this paper will examine the current state of the art in Blue Eye technology. We will explore various techniques and algorithms used for gaze tracking and analysis. We will also examine the potential benefits and limitations of this technology, such as the ability to provide more natural and efficient interaction with computer systems, improved accuracy and reliability, and the potential to provide insights into cognitive and emotional processes. Additionally, we will discuss the current and potential future applications of Blue Eye technology, such as in computer gaming, virtual and augmented reality, and assistive technology for individuals with disabilities. Furthermore, we will also explore the challenges and opportunities for future research in this field, such as the potential for increased accuracy and reliability, the integration of eye tracking with other modalities, and the development of new applications for this technology.

In summary, this paper aims to provide an overview of the current state of the art in Blue Eye technology, discussing the various techniques and algorithms used for gaze tracking and analysis, the potential benefits and limitations of this technology, as well as its current and potential future applications. Additionally, we will discuss the challenges and opportunities for future research in this field, highlighting the potential impact of Blue Eye technology on areas such as computer gaming, virtual and augmented reality, and assistive technology for individuals with disabilities."

II. LITERATURE REVIEW

A literature review of Blue Eye technology would involve an examination of the existing research on the topic, including studies on the accuracy and reliability of gaze tracking, the development and use of different eye-tracking equipment and algorithms, and the potential applications of the technology.

In terms of accuracy and reliability of gaze tracking, research has shown that current systems can be affected by factors such as head movement, lighting conditions, and individual differences in eye physiology. Studies have

Need for 'Patent Search' Modernisation and Potential for its Acceleration Leveraging AI/ML Models

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Abstract: *Intellectual Property Rights (IPR) have played a crucial role in promoting innovations across the globe and of late the industry has seen a steep rise in innovation activity. There is an unprecedented urgency to help global IP offices in shortening the processing time, managing bureaucratic delays, and improving operational transparency.*

Patents are one of the most critical IP types among the 6 types where there is significant traction over the last couple of years. From ideation to the grant of the patent and its commercial use, the past patent data is required to be searched for and referred to for; 1] patentability assessment, 2] invalidity assessment, etc. Therefore, 'Search' becomes the most critical process across the patent lifecycle.

Literature study indicates that issues involved in patent search (when traditional search techniques are employed) usually are around 1] data processing errors, 2] errors due to language pitfalls, 3] errors due to faulty syntax, and 4] classification errors. These erroneous searches result in a large number of false positives and false negatives.

Artificial Intelligence (AI) and Machine Learning (ML) are leading the wave of technology development - both from a research and development perspective as well as their commercial use. Adopting these next-generation technologies presents great potential to help address the growing challenges in the patent search process.

AI/ML based models are suitable predominantly for multi-lingual search, handling diverse data formats, image comparisons, and keyword matching. As IP databases across countries still lack standardization, advanced technologies such as generative AI are best suited to help accelerate the patent search process.

Feasibility assessment of leveraging various AI/ML models to address efficiency and effectiveness issues of patent search can be performed through a 3-part framework (3i) focussing on various dimensions such as Integrate, Infer, and Intelligence.

AI/ML model applicability can be assessed against specific objectives of each part viz.

*1. **Integrate** – integration with various patent databases,*

*2. **Infer** – data extraction and transformation into a standardized data set suitable for comparative analysis and*

*3. **Intelligence** – comparison, matching, and decision-making for search objectives.*

At a global scale, further deliberations and studies on this subject are of immense value in the areas of knowledge and policy-making thereby benefiting practitioners, the academic fraternity, and society.

Keywords: Intellectual Property, Patent, Patent Search, AI/ML Models, Intelligence

I. INTRODUCTION

Intellectual Property Rights (IPR) have played a crucial role in promoting innovations across the globe and of late there has been a steep rise in innovation activity. The ongoing crisis (Covid-19) has impacted the Intellectual Property industry both positively by creating a need for accelerated commercialization of innovations and negatively by creating a funding challenge on the continuity of innovation efforts. This dual impact has generated an unprecedented urgency to help global IP offices in shortening processing time, manage bureaucratic delays, and improve operational transparency. Technology advancements across the globe have been instrumental in the economic development and well-being of human beings. Huge efforts have been invested across the globe in researching and developing new technologies to help