ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, RAJAMPET

List of Patent published & Granted by the faculty during-2024-25

Sl. No	Patent Application Number	Name of the Applicant (s)	Name of the Inventor (s)	Title of the Patent	Patent Filed Date (DD/MM/YY)	Date of Published (DD.MM.YY)	Patent Publication Number	Patent Granted Date (DD.MM.YY)	Patent Granted Number	National/International	Assignee/s Name (Institute Affiliation/s at time of Appication)	Status
1	202541001928	Ms. J. Merlin Mary Dr. K. Sujatha Anuradha Parasar Dr. Vaddi Seshagiri Rao K. Shakila **L. Sivayamini** Dr. V. Kavitha EMN Sharmila Billa Vamsi Krishna Bibin Xavier G. S. Rajitha Priya	Ms. J. Merlin Mary Dr. K. Sujatha Anuradha Parasar Dr. Vaddi Seshagiri Rao K. Shakila **L. Sivayamini** Dr. V. Kavitha EMN Sharmila Billa Vamsi Krishna Bibin Xavier G. S. Rajitha Priya	Machine Learning based automatic Prediction of student performnace to support higher education systes	09.01.2025	17.01.2025	03/2025			National	Annamacharya university	Publication
2	202541003947	Dr. C. L. Monica Dr. P. Chellammal Arijit Sarkar Dr. P. Chandra Sekhar Dr. Vivekanand Pandey **Dr. C. Venkatesh** Mahendran K Dharani Ramasamy C. Rekha N. Reddirani Hasthi Teja	Dr. C. L. Monica Dr. P. Chellammal Arijit Sarkar Dr. P. Chandra Sekhar Dr. Vivekanand Pandey **Dr. C. Venkatesh** Mahendran K Dharani Ramasamy C. Rekha N. Reddirani Hasthi Teja	Implementation of AI agridculture though machine learning and IoT for advance plant disease detection	17.01.2025	31.01.2025	05/2025			National	Annamacharya university	Publication
3	202411094352	Shafqat Alauddin M. Keerthi Priya Sarabjit Kaur Dr. Amit Chauhan Mathivanan K Dr. Radha Ranjan Balasubramanyan A **Dr. C. Venkatesh** P. Arulkumar Dr. S. Nagendra Prabhu	Shafqat Alauddin M. Keerthi Priya Sarabjit Kaur Dr. Amit Chauhan Mathivanan K Dr. Radha Ranjan Balasubramanyan A **Dr. C. Venkatesh** P. Arulkumar Dr. S. Nagendra Prabhu	Cyber crime detection and prevention using automated machine learning in IoT forensics	01.12.2024	20.12.2024	51/2024			National	Annamacharya university	Publication
4	202441072277	Dr. M. Prakash Dr. Rachappa Jopate Dr. R. Arul Jose Dr. K. Ch. Sri Kavya **Dr. G. Thirumalaiah** Dr. Archana Kumari Prasad S. Devipriya Dr. Badugu Suresh G. Suneetha Kiran Kumar B.	Dr. M. Prakash Dr. Rachappa Jopate Dr. R. Arul Jose Dr. K. Ch. Sri Kavya **Dr. G. Thirumalaiah** Dr. Archana Kumari Prasad S. Devipriya Dr. Badugu Suresh G. Suneetha Kiran Kumar B.	System and Method For Blockchain-Based Credibility Verification of Internet of Things(IoT) Entities	24.09.2024	04.10.2024	40/2024			National	Annamacharya university	Publication

5	202441038229	S. Hrushikesava raju Y. Sreeraman Dr. M Nagaraju Lakshmanarao Battula Thamodharan Arumugam V. Rajasekhar Nazma Sultana shaik Thirukumaran S Lakshminarayana K **Dr. N. Merrin Prasanna** Bakkala Santha Kumar K. Praveen Kumar	S. Hrushikesava raju Y. Sreeraman Dr. M Nagaraju Lakshmanarao Battula Thamodharan Arumugam V. Rajasekhar Nazma Sultana shaik Thirukumaran S Lakshminarayana K **Dr. N. Merrin Prasanna** Bakkala Santha Kumar K. Praveen Kumar	A hybrid optimal system for tailored rehabilitation to empower patient health	15.05.2024	02.08.2024	31/2024			National	Annamacharya Institute Of Technology & Sciences (Autonomous),	Publication
6	202421079637	Dr. R. K. Kumawat K. Ramalakshmi Dr. X. Arogya Presskila Bimal Nepal Dr. E. Vijayakumar Mr. Anvesh Perada Dr. B. Gayathri Gourav Kalra Manu Vasudevan Unni Jeyaprakash N **Dr. Narasapuram Penchalaiah** Dr. Akshika Rastogi	Dr. R. K. Kumawat K. Ramalakshmi Dr. X. Arogya Presskila Bimal Nepal Dr. E. Vijayakumar Mr. Anvesh Perada Dr. B. Gayathri Gourav Kalra Manu Vasudevan Unni Jeyaprakash N **Dr. Narasapuram Penchalaiah** Dr. Akshika Rastogi	Optimising Machine Learning Models for Accurate Prediction of Student Learning Outcomes	20.10.2024	22.11.2024	47/2024			National	Annamacharya university	Publication
7	202421079638	Dr. R. K. Kumawat N. Sumi K. Bharathi Bimal Nepal Dr. E. Vijayakumar Mr. Anvesh Perada Dr. B. Gayathri Dr. Monika Manu Vasudevan Unni M. Nivethitha Devi **Dr. Narasapuram Penchalaiah** Tushar Kumar	Dr. R. K. Kumawat N. Sumi K. Bharathi Bimal Nepal Dr. E. Vijayakumar Mr. Anvesh Perada Dr. B. Gayathri Dr. Monika Manu Vasudevan Unni M. Nivethitha Devi **Dr. Narasapuram Penchalaiah** Tushar Kumar	A Critical Analysis of Machine Learning and Modern Pedagogy in Improving Teaching Practices in Higher Education	20.10.2024	09.05.2025	19/2025			National	Annamacharya university	Publication
8	202541045441	Dr. M. Obulesu **Dr. P. Chandra Reddy** Dr. Pothula Jayalakshmi Dr. Peram Madhu Mohan Mrs. R. Krishn Kumari Mr. B. Jagadeesh Kumar Dr. Pavan Kumar C Mrs. G. Pavani Dr. Venkateswara Raju K Dr. S. Sridhar Dr. N. Krishna Chaithanya	Dr. M. Obulesu **Dr. P. Chandra Reddy** Dr. Pothula Jayalakshmi Dr. Peram Madhu Mohan Mrs. R. Krishn Kumari Mr. B. Jagadeesh Kumar Dr. Pavan Kumar C Mrs. G. Pavani Dr. Venkateswara Raju K Dr. S. Sridhar Dr. N. Krishna Chaithanya	Symbolic- AI Hybrid system for solving Maths problems	11.05.2025	30.05.2025	22/2025			National	Annamacharya university	Publication

9	202441070226	**Dr. G. Kanuka Raju** Dr. Vaishali Ratilal Panchal Vrushali Sagun Kulkarni Ms. Ritika Tiwari Dr. Ghousia Imam Dr. Lubna Javed Hasan Siddiqui Prof. (Dr.) Vivek Rastogi Farida Khopoliwala Dr. Niranjan Ramesh Shah Suneetha Koosetty	**Dr. G. Kanuka Raju** Dr. Vaishali Ratilal Panchal Vrushali Sagun Kulkarni Ms. Ritika Tiwari Dr. Ghousia Imam Dr. Lubna Javed Hasan Siddiqui Prof. (Dr.) Vivek Rastogi Farida Khopoliwala Dr. Niranjan Ramesh Shah Suneetha Koosetty	Analysis Of Indian Stock Market Investor Perception, Apprehension, And Decision-Making	17.09.2024	20.09.2024	38/2024			National	Annamacharya university	Publication
10	202441060953	Dr. K. Rajesh Kumar Dr. P. V. Varaprabhakar Dr. P. Ch. Praveen Kumar Dr. E. Nagaraju Mrs. Aruna Paladi Dr. Maria Justina Grey Mr. G. M. R. Josephine **Dr. G. Kanuka Raju** Mr. K. Venkata Subbaiah Charan Teja Ayyala	Dr. K. Rajesh Kumar Dr. P. V. Varaprabhakar Dr. P. Ch. Praveen Kumar Dr. E. Nagaraju Mrs. Aruna Paladi Dr. Maria Justina Grey Mr. G. M. R. Josephine **Dr. G. Kanuka Raju** Mr. K. Venkata Subbaiah Charan Teja Ayyala	Enhancing Employee Well-Being through Ethical Leadership: The Role Of Workplace Spirituality	12.08.2024	16.08.2024	33/2024			National	Annamacharya university	Publication
11	202541053328	Dr. Venkata Ramana, Dr. K. Lakshminarayana, Avinish kumar V, Dr. Satyamurty K, Dr. Y. Sreeraman, Dr. P. Jaya prakash, **Dr. N C Alluraiah**	Dr. Venkata Ramana, Dr. K. Lakshminarayana, Avinish kumar V, Dr. Satyamurty K, Dr. Y. Sreeraman, Dr. P. Jaya prakash, **Dr. N C Alluraiah**	Afforestation through Tree Planting on Birthdays and Other Occasions with Online Geo-Tagged Tracking for Remote Plant Monitoring	02.06.2025	13.06.2025	24/2025			National	Annamacharya university	Publication
12	202441059556	**Dr. M Padma Lalitha,** Dr. Rajasekharan, **Dr. Pasala Gopi,** Dr. M. Krishna murty, Dr. M Pala Prasad Reddy, **Dr. S. Muqthiar Ali,** **Dr. S. Suresh,** **Dr. K Vijay Baskhar**	**Dr. M Padma Lalitha,** Dr. Rajasekharan, **Dr. Pasala Gopi,** Dr. M. Krishna murty, Dr. M Pala Prasad Reddy, **Dr. S. Muqthiar Ali,** **Dr. S. Suresh,** **Dr. K Vijay Baskhar**	Artificial Neural Networks based VAR Compensation of inverters connected to distribnuted energy resources	07.08.2024	16.08.2024	33/2024			National	Annamacharya university	Publication

Patent Search

Invention Title	MACHINE LEARNING-BASED AUTOMATIC PREDICTION OF STUDENT PERFORMANCE TO SUPPORT HIGHER EDUCATION SYSTEMS
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Classification (IPC)	G06N0020000000, G06Q0050200000, H04L0041160000, G06F0003010000, G09B0007020000

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Abstract:

Machine Learning-Based Automatic Prediction of Student Performance to Support Higher Education Systems is the proposed invention. The proposed invention focuses on understanding the functions of Higher Education Systems. The invention focuses on analyzing the parameters of Student Performance to Support Education Systems using algorithms of Machine Learning Approach.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.
[0002] Machine learning (ML) is a type of artificial intelligence (AI) that allows computers to learn and improve from experience without being explicitly programmed. ML uses algorithms to analyze large amounts of data, identify patterns, and make predictions. The more data a machine learning system is exposed to, the more accurate its predictions become. ML is a key tool for data scientists, who use it to make predictions and uncover patterns in data.
[0003] A number of different types of student performance analysis systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.
[0004] US20060166174A1: System and methods for predicting and dynamically adapting the most appropriate content and teaching strategies that aid individual student learning. System and methods are based on a cognitive model that integrates new information with what the student already knows. A program of study is predicted by the unique cognitive needs of the individual student correlated with aggregated student data history using an Artificial Intelligence Engine (AI Engine). Said system and methods then dynamically adapt the initial cognitive model to the student's ongoing progress using personalized software Agents. Said system and methods include a computer network that incorporates a server-side AI Engine and a collection of client-side software Agents embodied as animated characters. The program connects new information to prior knowledge and then strengthens these connections through dedicated learning Activities, customized to the student, to ensure that effective, and real, learning occurs.
[0005] Higher education, also called post-secondary education, third-level or tertiary education, is an optional final stage of formal learning that occurs after completion of

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Patent Search

Invention Title	IMPLEMENTATION OF AI IN AGRICULTURE THROUGH MACHINE LEARNING AND IOT FOR ADVANCED PLANT DISEASE DETECTION
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Publication Type	INA
Application Number	202541003947
Application Filing Date	17/01/2025
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Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06V0010820000, G06N0020000000, G06N0003088000, G06T0007000000, G06V0020100000

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Abstract:

Implementation of AI in Agriculture through Machine Learning and IOT for Advanced Plant Disease Detection is the proposed invention. The proposed invention focuses on understanding the functions of Agriculture. The invention focuses on analyzing the parameters of Advanced Plant Disease Detection using algorithms of Machine Learning and IOT Approaches.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.
[0002] Machine learning (ML) is a subset of artificial intelligence (AI) that allows computers to learn and improve from data without being explicitly programmed. ML uses algorithms to analyze data, identify patterns, and make predictions. The more data a machine learning model is exposed to, the better it performs. ML is a good choice when data is always changing, or when it would be difficult to code a solution. ML is used in many applications, including Streaming services, Self-driving cars, Business decision-making, Exploratory data analysis and etc.
[0003] A number of different types of agricultural land analysis systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.
[0004] US10846843B2: A device receives images of a field on a farm, and filters the images of the field to generate filtered images. The device isolates planting lanes in the filtered images, where the planting lanes include lanes formed by crops in the field, and the planting lanes are isolated via a masking technique or a sliding windows technique. The device identifies plant gaps in the planting lanes, where the plant gaps correspond to portions of the planting lanes that are missing crops, the plant gaps are identified based on a heat map when the masking technique is utilized to isolate the planting lanes, and the plant gaps are identified based on sliding windows when the sliding windows technique is utilized to isolate the planting lanes. The device superimposes the plant gaps over the images to generate a visual representation of stressed areas in the field, and performs an action based on the visual representation of the stressed areas.
[0005] IoT stands for Internet of Things, which is a network of physical objects that are connected to the internet and can communicate with each other and the cloud. IoT

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Patent Search

Invention Title	CYBERCRIME DETECTION AND PREVENTION USING AUTOMATED MACHINE LEARNING IN IOT FORENSICS
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Priority Date	
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Abstract:

The method for the development of the impact and type of the attacks, forensic analysis is also carried out on logs using forensic servers. Several machine learning (ML) algorithms are incorporated into the suggested framework to automatically detect attacks. Recall, accuracy, precision, and F1 score are used to evaluate these models' performance. When compared to the other algorithms, the decision tree algorithm performs the best, according to the results. Furthermore, the results and thorough performance analysis provided support the suggested model. Integrated Hadoop Blockchain Forensic Machine Learning (IHBF-ML) is the name of the developed Blockchain model. To increase security, the IHBF-ML model integrates the Hadoop Distributed File System (HDFS) with cyberspace. The smart contract is used in the IHBF-ML model to establish IoT data communication. The machine learning model combined with the Cat Boost classification model is used for anomaly detection in the smart contract-based blockchain process. Investigations can be accelerated by utilizing AI and machine learning, which allows for quick reactions to cyberthreats and lowers a company's overall risk exposure.

Complete Specification

Description:CYBERCRIME DETECTION AND PREVENTION USING AUTOMATED MACHINE LEARNING IN IOT FORENSICS

Technical Field

[0001] The embodiments herein generally relate to a method for cybercrime detection and prevention using automated machine learning in IoT forensics.

Description of the Related Art

[0002] The Internet of Things (IoT) is a network of linked devices that, once connected to the Internet, safely exchange data and resources. The IoT surpasses all other conventional networks in terms of less direct human interaction, a broader perspective, and expandable features. Numerous inventions, such as wearable technology, smart metering, smart firefighting, intelligent buildings, home automation, and advanced manufacturing, have been made possible by the widespread use of IoT. In order to gather, examine, and present evidence that is acceptable in a court of law, forensics is a collection of procedures that are applied to a potential entity. The field of network and computer forensics deals with a thorough examination of the recorded data to uncover evidence that can be used in court. An essential component of the forensic process is the audit, analysis, and presentation of computer and network data for information gathering, encroachment detection, and legal evidence. Since computer systems are the foundation of a global network that connects all countries, cybercrime is a crucial instance of cross-border wrongdoing. Since criminals can cause significant harm in any jurisdiction, location may not matter. Traditional forensic methods are still essential, but they frequently can't handle the sheer amount and complexity of data. Cyber threat classification and assessment by hand are tedious, time-consuming, and prone to mistakes. The need for state-of-the-art technologies that can help forensic investigators more accurately and consistently detect and categorize cyberthreats is therefore increasing

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Patent Search

Invention Title	SYSTEM AND METHOD FOR BLOCKCHAIN-BASED CREDIBILITY VERIFICATION OF INTERNET OF THINGS (IOT) ENTITIES
Publication Number	40/2024
Publication Date	04/10/2024
Publication Type	INA
Application Number	202441072277
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Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	H04L9/06, H04L9/32, H04L67/12, G16Y30/00, G06F21/62

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Abstract:

ABSTRACT The present invention relates to a blockchain-based system and method for verifying the credibility of Internet of Things (IoT) entities, addressing significant challeng related to trust, security, and scalability in increasingly complex IoT networks. By leveraging blockchain technology, the system generates unique cryptographic identities for eac IoT device, facilitating secure authentication and communication. It employs lightweight consensus protocols, such as Proof of Stake (PoS), which are optimized for resource-constrained IoT devices, ensuring efficient scalability without compromising security. Smart contracts play a crucial role in automating device management processes, dynamica adjusting permissions based on real-time credibility scores derived from continuous monitoring of device interactions and behaviors. Devices exhibiting consistent, legitimate behavior maintain high credibility, while those displaying anomalies are flagged for further investigation, thus enhancing the overall security of the network. Additionally, the system features an off-chain data handling mechanism that efficiently manages non-critical data, reserving blockchain storage for essential identity and transaction records. Thi optimization improves performance and scalability, enabling the system to handle vast amounts of data generated by IoT devices without overwhelming the blockchain infrastructure. In summary, this invention provides a comprehensive and decentralized framework for securing IoT ecosystems, facilitating reliable operations across various applications, including smart cities, healthcare, and industrial automation, ultimately fostering trust and integrity among interconnected devices.

Complete Specification

Description:SYSTEM AND METHOD FOR BLOCKCHAIN-BASED CREDIBILITY VERIFICATION OF INTERNET OF THINGS (IOT) ENTITIES

FIELD OF THE INVENTION

The present invention relates to the field of blockchain technology and its application in the Internet of Things (IoT). More specifically, it addresses a system and method for verifying the credibility and trustworthiness of IoT entities by utilizing blockchain-based mechanisms. This invention provides a decentralized, immutable, and transparent framework for ensuring that IoT devices, services, or transactions are authentic, reliable, and secure. By leveraging the inherent properties of blockchain, such as consensus protocols and cryptographic security, the system enhances the trust among IoT devices, preventing unauthorized access, data manipulation, or malicious activity. This invention is particularly relevant to IoT networks in industries such as healthcare, smart cities, supply chain management, and industrial automation, where trust and security are critical for seamless and secure operations. The invention offers a novel approach to addressing the challenges of scalability, authentication, and data integrity in interconnected IoT environments.

BACKGROUND OF THE INVENTION

The rapid proliferation of Internet of Things (IoT) devices across various industries has led to an interconnected world where everyday objects can communicate, collect, and share data. IoT technology is transforming sectors such as healthcare, smart cities, manufacturing, agriculture, and transportation by enabling real-time monitoring

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Patent Search

Invention Title	A HYBRID OPTIMAL SYSTEM FOR TAILORED REHABILITATION TO EMPOWER PATIENT HEALTH
Publication Number	31/2024
Publication Date	02/08/2024
Publication Type	INA
Application Number	202441038229
Application Filing Date	15/05/2024
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Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0020000000, G16H0050200000, G16H0020700000, G16H0050700000, G16H0010600000

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Abstract:

The existing traditional methods focus on a single inability in the course of rehabilitation and are suffering with motivation, and may not address diverse patient needs. To overcome these challenges, an approach is required which address more than single impairment as well as tailored to specific patient needs. This demands a hybrid approach that consists of combination of cognitive and machine learning models. This integration minimizes gaps and improves personalized rehabilitation of individual patient. The combination chooses selectively meta-cognitive methodology with dynamic adaptive training and modified CNN with ensemble strategy. This hybrid system aims to provide comprehensive framework that efficiently caters individual patient. The outcomes of this hybrid system are to get better accuracy and promising efficiency when compared against the traditional approaches. This system addresses factors such as the availability of patient data as open source, minimizes the complexity of the rehabilitation task, effective management of computational resources. Stacking is an ensemble method can be used in personalized rehabilitation would mitigate individual model biases or uncertainties. This would enhance the reliability of this framework as well as adapt to diverse patient needs and preferences.

Complete Specification

Description:Title: A hybrid optimal system for tailored rehabilitation to empower patient health

Field and background of the invention:

Based on medical technology and advances in patient care, personalized rehabilitation is focused and aimed to address the multiple inabilities of a patient. There are many traditional approaches used for this rehabilitation, and addresses single impairment, lack of motivation, lack of patient specific tailoring, and limited effectiveness. To overcome these challenges and pitfalls, a hybrid approach that support combination of cognitive model, machine learning model with ensemble strategy is designed.

Traditional approaches typically address only a single impairment, leading to several issues:

(i) Limited Effectiveness: Focusing on one aspect may not address the full scope of a patient's needs, hindering overall recovery.

(ii) Motivation Issues: Repetitive exercises targeting a single impairment can become monotonous, leading to decreased patient motivation and adherence to therapy plans.

(iii) Lack of Personalization: Traditional methods often lack the ability to tailor therapy to individual patient needs and limitations.

These limitations highlight the need for a more comprehensive and engaging approach to rehabilitation.

Brief description of the system:

The proposed system is a hybrid optimal system for tailored rehabilitation. This system combines different approaches to create a more personalized and effective treatment plan for patients.

The key aspects of the system when divided into smaller modules such as :

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Patent Search

Invention Title	OPTIMISING MACHINE LEARNING MODELS FOR ACCURATE PREDICTION OF STUDENT LEARNING OUTCOMES
Publication Number	47/2024
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Publication Type	INA
Application Number	202421079637
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Classification (IPC)	G06Q0050200000, G06N0020000000, G06N0003084000, G06N0020200000, H04N0019510000

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Abstract:

Optimising Machine Learning Models for Accurate Prediction of Student Learning Outcomes is the proposed invention. The proposed invention focuses on understanding the functions of Optimising Machine Learning Models for Students. The invention focuses on analyzing the parameters of Accurate Prediction of Student Learning Outcomes.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.
[0002] Machine learning (ML) is a branch of artificial intelligence (AI) that allows systems to learn from data and perform tasks without explicit instructions. Machine learning (ML) uses algorithms to analyze large amounts of data, identify patterns, and make decisions. The more data a system is exposed to, the better it becomes at learning and making decisions. Machine learning (ML) can help optimize energy consumption, reduce waste, and improve operational efficiency.
[0003] A number of different types of students learning outcomes analysis systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.
[0004] US11176444B2: Disclosed herein are platforms, systems, devices, methods and media for model optimization and data analysis using machine learning. Input data can be processed and analyzed to identify relevant discriminating features, which can be modeled using a plurality of machine learning models. A computing device can be configured with one or more optimized models for categorizing input data.
[0005] Machine Learning models are very powerful resources that automate multiple tasks and make them more accurate and efficient. ML handles new data and scales the growing demand for technology with valuable insight. It improves the performance over time. This cutting-edge technology has various benefits such as faster processing or response, enhancement of decision-making, and specialized services. The proposed invention focuses on analyzing the Accurate Prediction of Student Learning Outcomes.
[0006] Above information is presented as background information only to assist with an understanding of the present disclosure. No determination has been made, no

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Patent Search

Invention Title	A CRITICAL ANALYSIS OF MACHINE LEARNING AND MODERN PEDAGOGY IN IMPROVING TEACHING PRACTICES IN HIGHER EDUCATION
Publication Number	19/2025
Publication Date	09/05/2025
Publication Type	INA
Application Number	202421079638
Application Filing Date	20/10/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q50/20, G06N20/00, G09B7/00

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Abstract:

A critical analysis of machine learning and modern pedagogy in improving teaching practices in higher education is the proposed invention. The proposed invention focuses on understanding the functions of Critical Analysis of Modern Pedagogy in Higher Education. The invention focuses on analyzing the parameters of Teaching Practices in Higher Education using algorithms of Machine Learning Approach.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.
[0002] Machine learning (ML) is a branch of artificial intelligence (AI) that allows systems to learn from data and perform tasks without explicit instructions. Machine learning (ML) uses algorithms to analyze large amounts of data, identify patterns, and make decisions. The more data a system is exposed to, the better it becomes at learning and making decisions. Machine learning (ML) can help optimize energy consumption, reduce waste, and improve operational efficiency.
[0003] A number of different types of higher education outcomes analysis systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.
[0004] Introducing Systematic Patent Analysis as an Innovative Pedagogy Tool/Experiential Learning Project in HE Institutes and Universities to Boost Awareness of Patent-based IPR: Purpose: Research on Patent Analysis as an Innovative Pedagogy Tool/Experiential Learning Project in HE Institutes and Universities to Boost Awareness of Patent-based IPR" is being done to determine whether or not using patent analysis as a novel pedagogical strategy in higher education institutions is effective. Through hands-on interaction with actual patent data, this study seeks to determine how incorporating patent analysis into the academic curriculum can improve experiential learning and promote a deeper understanding of intellectual property rights (IPR). This study aims to contribute valuable insights that can guide educational practices, equip students with the necessary skills for the knowledge-based economy, and ultimately encourage innovation and entrepreneurship within the classroom by examining the effect of this novel pedagogy on students' awareness and comprehension of patent-related IPR. Method: An exploratory research method is used. The relevant information for exploring our idea of systematic patent analysis as an innovative pedagogy tool and experiential learning project in higher education institutions and universities are

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Patent Search

Invention Title	Symbolic-AI Hybrid System for Solving Complex Math Problems
Publication Number	22/2025
Publication Date	30/05/2025
Publication Type	INA
Application Number	202541045441
Application Filing Date	11/05/2025
Priority Number	
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Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0020000000, G06N0005040000, G06N0005045000, G06N0005010000, G09B0019020000

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Abstract:

The present invention discloses a hybrid computational system that synergistically combines symbolic reasoning with artificial intelligence (AI) to solve complex mathematical problems. The system integrates a symbolic computation engine with a machine learning module trained on a diverse dataset of mathematical problems and solution strategie Upon receiving a mathematical problem input, the AI module analyzes the problem's characteristics and predicts an optimal solution pathway. This predicted strategy guides th symbolic engine to execute precise computations, resulting in an exact solution. The system further includes a post-processing module that formats the solution into a human-readable, step-by-step explanation. By leveraging the pattern recognition capabilities of AI to inform symbolic computation, the invention enhances the efficiency and accuracy solving complex mathematical problems, providing a practical tool for educational, engineering, and scientific applications.

Complete Specification

Description:The invention introduces a Symbolic-AI Hybrid System designed to solve complex mathematical problems by integrating symbolic reasoning with machine learning techniques. This hybrid approach leverages the precision of symbolic computation and the adaptability of artificial intelligence to address a wide range of mathematical challenges, from algebraic equations to advanced calculus and differential equations.

System Components

1. User Interface Module:
o Function: Facilitates user interaction, allowing the input of mathematical problems in various formats, including text, images, or voice commands.
2. Preprocessing Module:
o Function: Processes the input to standardize and structure the data, preparing it for analysis. This may involve parsing equations, recognizing mathematical symbols, and converting natural language descriptions into formal representations.
3. AI Module:
o Function: Utilizes machine learning models trained on extensive datasets of mathematical problems and solutions to predict optimal solution strategies. This module identifies patterns and suggests approaches based on learned experiences.
4. Symbolic Computation Engine:
o Function: Executes the solution strategies using rule-based algorithms to perform exact computations. This engine handles the logical progression of mathematical operations, ensuring accuracy and consistency.

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Patent Search

Invention Title	ANALYSIS OF INDIAN STOCK MARKET INVESTOR PERCEPTION, APPREHENSION, AND DECISION-MAKING
Publication Number	38/2024
Publication Date	20/09/2024
Publication Type	INA
Application Number	202441070226
Application Filing Date	17/09/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04L0009400000, H04L0005000000, C07K0016300000, A61K0039000000, A61F0013150000

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Abstract:

The present invention relates to a system and method for analyzing investor perception, apprehension, and decision-making in the Indian stock market using advanced data analytics, natural language processing (NLP), and machine learning (ML). The system collects real-time data from various sources, including financial news, social media platform and historical stock market data, to analyze sentiment and classify investor behavior. It categorizes investors into behavioral profiles such as risk-averse, speculative, and long-term investors, providing personalized investment insights and recommendations based on predictive analytics. The system also simulates market scenarios to forecast investo reactions and generate actionable strategies, helping investors optimize decision-making and improve portfolio management. This invention enhances market understanding b integrating both quantitative data and psychological factors, enabling better-informed financial strategies.

Complete Specification

Description:The embodiments of the present invention generally relates to the field of financial technology and behavioral finance, specifically focusing on the analysis of investor perception, apprehension, and decision-making within the context of the Indian stock market. The invention utilizes data analytics, sentiment analysis, and machine learning techniques to assess and predict investor behavior, providing valuable insights into their decision-making processes in response to market trends, economic indicators, and news events. It aims to enhance the understanding of behavioral patterns unique to the Indian stock market, thereby aiding investors, financial advisors, and institutions in optimizing investment strategies.

BACKGROUND OF THE INVENTION

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects of the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding of the reader with respect to the present disclosure, and not as admissions of prior art.

The Indian stock market is characterized by its dynamic and often volatile nature, influenced by a wide range of domestic and international factors such as political events, regulatory changes, global economic conditions, and market sentiment. Despite the availability of vast amounts of data, individual and institutional investors often struggle to make informed decisions due to the complexity and unpredictability of market movements. Investor perception and apprehension play a significant role in shaping investment strategies, and emotional factors such as fear, greed, and uncertainty often impact decision-making.

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Patent Search

Invention Title	ENHANCING EMPLOYEE WELL-BEING THROUGH ETHICAL LEADERSHIP: THE ROLE OF WORKPLACE SPIRITUALITY
Publication Number	33/2024
Publication Date	16/08/2024
Publication Type	INA
Application Number	202441060953
Application Filing Date	12/08/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	G09B0019000000, G06Q0010063700, G06Q0010105000, G16H0040200000, G06Q0010063900

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Abstract:

The present invention provides a system and method for enhancing employee well-being by integrating ethical leadership principles with workplace spirituality practices. This comprehensive approach combines ethical decision-making frameworks and leadership training with spiritual wellness programs and support networks. The system includes tools for assessing employee satisfaction and engagement, enabling organizations to monitor and refine their practices. By fostering a work environment rooted in ethical behavior and spiritual support, the invention aims to improve overall employee well-being, job satisfaction, and organizational success.

Complete Specification

Description:The present invention relates to the field of organizational management and human resources, specifically to methods and systems for enhancing employee well-being. More particularly, the invention pertains to integrating ethical leadership practices with workplace spirituality to improve employee satisfaction, engagement, and overall well-being within corporate environments.

BACKGROUND OF THE INVENTION

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects of the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding of the reader with respect to the present disclosure, and not as admissions of prior art.

Employee well-being has become a significant focus for organizations aiming to improve productivity, job satisfaction, and employee retention. Traditional approaches to enhancing well-being often emphasize benefits, work-life balance, and stress management. However, recent research suggests that deeper, more intrinsic factors also play a crucial role in fostering a positive work environment.

Ethical leadership is one such factor that has garnered attention. Ethical leaders are known for their integrity, fairness, and commitment to ethical principles, which can positively influence employee morale and trust. Leaders who consistently model ethical behavior and make principled decisions create a work culture that promotes respect and transparency

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Patent Search

Invention Title	Afforestation through Tree Planting on Birthdays and Other Occasions with Online Geo-Tagged Tracking for Remote Plant Monitoring
Publication Number	24/2025
Publication Date	13/06/2025
Publication Type	INA
Application Number	202541053328
Application Filing Date	02/06/2025
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0010100000, G06F0016290000, G16H0010600000, A01G0017000000, G06N0007010000
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Abstract:

The invention discloses a system and method for occasion-based afforestation using an online platform that integrates user interaction, geo-tagging, and remote plant monitoring. The system enables a user to register via a digital interface, select a desired tree species from a predefined list, and associate the planting with a specific da personal occasion such as a birthday, anniversary, or commemorative event. Users are provided with an interactive map interface to select and geo-tag the planting loc ensuring precise spatial identification. Once the location is selected, the system coordinates the planting of the tree, either through a partnering service provider or sel by the user. Each tree is logged in the system with its unique identification, linked to the user profile and occasion metadata. Post-planting, the system provides continu monitoring of the tree using geo-tagged tracking. Users can access a dedicated dashboard that displays data related to tree health, growth status, environmental condi maintenance history. Monitoring can include automated inputs from IoT devices or manual updates verified through time stamped images and location metadata. The promotes environmental sustainability by offering a personalized and traceable approach to tree planting, turning special occasions into long-term contributions to ecc restoration efforts. It combines digital engagement, location intelligence, and environmental tracking to foster meaningful and verifiable afforestation activities.

Complete Specification

Description:The present project relates to the fields of Environmental Technology, Geographic Information Systems (GIS), Remote Sensing, and Web/Mobile Applicatic Development. More particularly, it pertains to a digital platform for promoting afforestation by enabling tree planting on personal and public occasions, where each t geo-tagged for precise location tracking and remotely monitored using digital technologies. The project integrates GPS-based tracking, cloud-based data managemen remote monitoring systems to ensure transparency, engagement, and environmental sustainability.

This system lies at the intersection of environmental conservation efforts and modern ICT (Information and Communication Technology) tools, aiming to provide use a real-time view of their contribution to ecological preservation through a user-friendly digital interface.

It relates to the development and deployment of a geo-tagged tree planting and monitoring system that leverages modern technologies such as:

- Geographic Information Systems (GIS)
- Global Positioning System (GPS) and Geo-Tagging
- Remote Sensing and Satellite Imaging
- Internet of Things (IoT) for Environmental Monitoring
- Cloud Computing and Big Data Analytics
- Web and Mobile Application Development

, Claims:1. A system that allows users to register and plant trees for special occasions using an online platform.

2. A method for selecting tree species and geo-tagging the planting location using an interactive map

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Patent Search

Invention Title	ARTIFICIAL NEURAL NETWORKS BASED VAR COMPENSATION OF INVERTERS CONNECTED TO DISTRIBUTED ENERGY RESOU
Publication Number	33/2024
Publication Date	16/08/2024
Publication Type	INA
Application Number	202441059556
Application Filing Date	07/08/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H02J0003380000, H02J0003180000, H02J0003000000, G06N0003080000, H02J0013000000
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Abstract:

ABSTRACT ARTIFICIAL NEURAL NETWORK BASED VAR COMPENSATION OF INVERTERS CONNECTED TO DISTRIBUTED ENERGY RESOURCE SYSTEM OF WIND TURBINE AN ARRAY USING SVPWM TECHNIQUE A method for Voltage-Ampere Reactive (VAR) compensation in inverter-interfaced distributed energy resource (DER) systems, which wind turbines and photovoltaic (PV) arrays, using an Artificial Neural Network (ANN). The variability of wind and solar power generation can cause significant power qua making effective VAR compensation essential. The proposed ANN-based approach predicts the necessary VAR compensation by considering system parameters and op conditions. These predictions are used to generate appropriate modulation signals through the Space Vector Pulse Width Modulation (SVPWM) technique for controllin inverters. The results from simulations and experiments show that this method effectively enhances power quality, improves system stability, and optimizes the perfor the DER system.

Complete Specification

FORM 2
THE PATENT ACT 1970 (39 of 1970)
&
The Patents Rules, 2003 COMPLETE SPECIFICATION (See section 10 and M.13)

2. I. TITLE OF THE INVENTION: ARTIFICIAL NEURAL NETWORK BASED VAR COMPENSATION OF INVERTERS CONNECTED TO DISTRIBUTED ENERGY RESOURCE SYSTEM C
WIND TURBINE AND PV ARRAY USING SVPWM TECHNIQUE

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3. PREAMBLE TO THE DESCRIPTION

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