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Patent Search

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Inventor

Name	Address	Country
Dr. Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O, 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India
Mrs. A. Aldo Tenis	Assistant Professor, Department of CSE, SSM Institute of Engineering and Technology, Dindigul, Tamilnadu, India, Pincode: 624002	India
Mrs. Tamasa Priyadarsini	Assistant Professor, Department of CSE, Gandhi Institute of Excellent Technocrats, Bhubaneswar, Odisha, India, Pincode: 752054	India
Mrs. Laxmiparbati Das	Assistant Professor, Department of CSE, Gandhi Institute of Excellent Technocrats, Bhubaneswar, Odisha, India, Pincode: 752054	India
Mrs. Swarupa Anjya	Assistant Professor, Department of CSE, Gandhi Institute of Excellent Technocrats, Bhubaneswar, Odisha, India, Pincode: 752054	India
Dr. V. Bhargavi Reddy	Assistant Professor, Department of Business Management, Sri Padmavati Mahila Visva Vidyalayam, Tirupati, Andhra Pradesh, India, Pincode: 517501	India
Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India
Dr. N. Sree Rajani	Assistant Professor, Department of Business Management, Sri Padmavati Mahila Visva Vidyalayam, Tirupati, Andhra Pradesh, India, Pincode: 517501	India

Applicant

Name	Address	Country
Dr. Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O, 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India
Mrs. A. Aldo Tenis	Assistant Professor, Department of CSE, SSM Institute of Engineering and Technology, Dindigul, Tamilnadu, India, Pincode: 624002	India
Mrs. Tamasa Priyadarsini	Assistant Professor, Department of CSE, Gandhi Institute of Excellent Technocrats, Bhubaneswar, Odisha, India, Pincode: 752054	India
Mrs. Laxmiparbati Das	Assistant Professor, Department of CSE, Gandhi Institute of Excellent Technocrats, Bhubaneswar, Odisha, India, Pincode: 752054	India
Mrs. Swarupa Anjya	Assistant Professor, Department of CSE, Gandhi Institute of Excellent Technocrats, Bhubaneswar, Odisha, India, Pincode: 752054	India
Dr. V. Bhargavi Reddy	Assistant Professor, Department of Business Management, Sri Padmavati Mahila Visva Vidyalayam, Tirupati, Andhra Pradesh, India, Pincode: 517501	India
Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India
Dr. N. Sree Rajani	Assistant Professor, Department of Business Management, Sri Padmavati Mahila Visva Vidyalayam, Tirupati, Andhra Pradesh, India, Pincode: 517501	India

Abstract:

The proposed invention, "Smart Attendance Systems in E-Learning: Harnessing IoT and AI for Enhanced Classroom Analytics," presents a transformative solution to the of attendance tracking in online education. By seamlessly integrating Internet of Things (IoT) and Artificial Intelligence (AI), the system automates attendance processed classrooms. IoT sensors strategically placed within the digital learning environment capture real-time attendance data, overcoming the limitations of traditional meth integration of AI introduces intelligent analytics, offering educators comprehensive insights into student engagement, participation patterns, and performance metric system adapts to diverse e-learning modalities, seamlessly integrating with various platforms and recognizing the nuances of virtual interactions. Predictive analytics educators to personalize instructional strategies, fostering a tailored learning experience. Ethical considerations, including robust privacy safeguards, underscore rest use. Envisioning a future where attendance data informs evidence-based decision-making, the proposed system redefines attendance tracking, becoming an integral intelligent component of the modern educational journey, enhancing the overall e-learning experience.

Complete Specification

Description:The proposed system, "Smart Attendance Systems in E-Learning: Harnessing IoT and AI for Enhanced Classroom Analytics," operates at the intersection Internet of Things (IoT) and Artificial Intelligence (AI). This innovative field of invention focuses on revolutionizing traditional attendance tracking methods in educati settings. By leveraging IoT sensors, the system automates the attendance process, capturing real-time data on student presence. The integration of AI algorithms er classroom analytics, providing valuable insights into attendance patterns, engagement levels, and performance metrics.

This technology not only streamlines administrative tasks but also promotes a more interactive and personalized e-learning experience. Through Al-driven analytics educators can identify trends, predict student needs, and tailor instructional strategies accordingly. The system's intelligent data processing capabilities contribute t more dynamic and adaptive learning environment, fostering student success. Overall, the proposed Smart Attendance System presents a forward-thinking solution optimizes educational processes by combining the power of IoT and Al in the realm of e-learning.

Background of the invention:

In the ever-evolving landscape of education, the advent of technology has been a catalyst for transformative change. Traditional classroom structures are undergoir paradigm shift, propelled by the integration of innovative solutions. One such groundbreaking proposal is the "Smart Attendance Systems in E-Learning: Harnessing Al for Enhanced Classroom Analytics." To delve into the background of this inventive system, it is essential to recognize the challenges faced by educational institution the opportunities presented by emerging technologies.

Traditional attendance tracking methods have long been a staple in educational settings, relving on manual processes that are time-consuming, prone to errors, and

View Application Status



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