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(57) Abstract :
 The present invention discloses an Intelligent Internet of Things (IoT) System designed to revolutionize classroom management and optimize learning experiences through the integration of advanced sensor technology. The system addresses the growing need for efficient classroom management and personalized learning in educational settings. By harnessing the power of IoT and sensor networks, the invention provides real-time monitoring, analysis, and adaptive responses to enhance both student engagement and academic performance. Key features of the Intelligent IoT System include the seamless integration of various sensors strategically placed within the classroom environment. These sensors collect a diverse array of data, including but not limited to student attendance, environmental conditions, noise levels, and even individual student biometric data. Through sophisticated algorithms and machine learning techniques, the system processes this data to derive actionable insights for educators and administrators. One notable aspect of the invention is its ability to detect anomalies or deviations from the norm in classroom behavior or environmental conditions. This enables proactive interventions to address potential disruptions and optimize the learning environment in real-time. Additionally, the system offers personalized learning experiences by analyzing individual student data and providing tailored recommendations or interventions based on their unique learning styles and needs. Furthermore, the Intelligent IoT System fosters seamless communication between students, teachers, and administrators through intuitive interfaces and notifications. This promotes collaboration, transparency, and accountability within the educational ecosystem.

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