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(57) Abstract :

AI and IoT-Enabled Attendance and Engagement Monitoring System for Remote and In-Person Classrooms ABSTRACT: Effective classroom instruction necessitates the identification of cues to stimulate students' attentiveness and the monitoring of student engagement and interaction during class time. The capacity of educators to assess and evaluate the behavior of their students in the classroom is becoming increasingly critical as a prerequisite for exceptional instruction. Artificial intelligence (AI)-based behavior recognition techniques can be employed to evaluate the level of engagement and attention that pupils demonstrate in the classroom. In order to refine and improve education systems, the global education system is adapting to the rapid pace of digitalization and conducting research on emergent technical advancements, including artificial intelligence (AI), the internet of things (IoT), and big data analytics. Contemporary classroom systems are enhanced with the most recent technologies in educational institutions to enhance their interactive, student-centered, and customizable capabilities. Radio Frequency Identification (RFID) technology is utilized in a wide range of industries and enterprises, such as retail sales, smart cities, agriculture, and transportation.

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