

AI and IoT Based Smart Classroom

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Abstract: AI and IoT technologies are revolutionizing education by creating dynamic and interactive learning environments. Smart classrooms are equipped with sensors, devices, and AI-driven software that enable real-time data collection, analysis, and personalized learning experiences. These technologies enhance the quality of education by optimizing classroom management, improving student engagement, and providing educators with valuable insights. The growing significance of AI and IoT in reshaping the educational landscape and fostering a more efficient and effective learning process. It emphasizes the potential of smart classrooms to cater to diverse learning styles, encourage collaboration, and prepare students for the demands of the 21st century. The AI and IoT-based smart classroom is not merely a concept but a promising reality that has the potential to revolutionize education and prepare students for a rapidly evolving future.

Keywords: Automation, Virtual Assistant, AI, IOT, Raspberry Pi, Smart Classroom

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