IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 3, December 2024

Artificial Intelligence in Education System

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Abstract: This project examines the transformative role of Artificial Intelligence (AI) in the education system, highlighting its potential to enhance learning experiences, streamline administrative processes, and personalize education. As educational institutions face increasing demands for innovation and efficiency, AI technologies such as adaptive learning platforms, data analytics, and virtual assistants are emerging as vital tools. This study explores the various applications of AI, including personalized learning pathways that cater to individual student needs, automated grading systems that free educators to focus on teaching, and AI-driven chatbots that provide instant support to learners.

Through a comprehensive analysis of case studies, current trends, and expert insights, this project illustrates the benefits of integrating AI in education, such as improved engagement, accessibility, and overall educational outcomes. Additionally, it addresses challenges associated with AI adoption, including ethical considerations, data privacy, and the need for ongoing teacher training. By examining the intersection of AI and education, this project aims to provide a nuanced understanding of how AI can foster a more inclusive and effective learning environment, ultimately redefining the educational landscape for future generations

DOI: 10.48175/IJARSCT-22863

Keywords: Adaptive Learning

