ARTIFICIAL INTELLIGENCE IN MODERN EDUCATION: OPPORTUNITIES, ETHICAL CHALLENGES, AND THE FUTURE OF HUMAN-CENTERED LEARNING

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Abstract: *Artificial Intelligence (AI) is rapidly transforming educational systems worldwide. This article critically examines the integration of AI into modern education, focusing on personalized learning, automation, accessibility, and ethical considerations. While AI offers significant opportunities to enhance learning efficiency and inclusivity, it also raises concerns regarding data privacy, dependency, and the preservation of human interaction in educational environments.*

Keywords: *Artificial Intelligence, Education Technology, Personalized Learning, Data Privacy, Digital Transformation, Human-Centered Education*

INTRODUCTION

The twenty-first century has witnessed an unprecedented technological revolution, with artificial intelligence emerging as one of its most influential innovations. In education, AI-driven tools are reshaping traditional pedagogical models, redefining the roles of teachers and learners, and expanding access to knowledge beyond physical classrooms.

Personalized Learning and Adaptive Systems

One of the most compelling advantages of AI in education lies in its ability to deliver personalized learning experiences. AI-powered adaptive platforms analyze learners' performance data and adjust instructional materials accordingly, providing real-time feedback and customized academic support.

Automation and Efficiency

Artificial intelligence reduces administrative burdens on educators by automating grading, attendance tracking, and assessment analysis. This allows teachers to focus more on mentorship, creativity, and emotional support.

Accessibility and Inclusion

AI enhances accessibility through speech recognition, text-to-speech tools, and real-time translation systems, supporting students with disabilities and language barriers.

Ethical Concerns

Despite its benefits, AI raises serious concerns regarding data privacy, algorithmic bias, and overdependence. Ethical governance and cybersecurity measures are essential for responsible implementation.

Conclusion

Artificial intelligence is reshaping modern education. However, it should function as a supportive instrument rather than a replacement for educators. A balanced and human-centered approach ensures sustainable academic development.

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