

The Emerging role of Artificial Intelligence (AI) in Education System

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ABSTRACT

Artificial Intelligence (AI) is tackling a number of issues and accelerating the achievement of Sustainable Development Goal 4 (SDG 4)—a process that is drastically changing schooling. Teaching and learning procedures are being optimized by AI's skills in data collecting and analysis, in conjunction with digital applications for student-teacher interaction and progress tracking. This abstract examines the effect of AI-powered personalized learning algorithms which make it possible to create unique lesson plans and assessments, which improve student performance and engagement. When augmented reality (AR) and artificial intelligence (AI) are combined, real-time interaction with virtual objects is made possible, transforming knowledge sharing in the classroom and further enhancing the educational experience. Even with these benefits, there are still a lot of worries about integrating AI into education, such as data privacy and equitable access to AI-driven platforms. To guarantee the ethical application of AI, policymakers must overcome these obstacles by putting in place clear regulations and encouraging stakeholder participation. This entails resolving any potential biases in AI systems and guaranteeing equitable opportunity for all students, irrespective of their geographic location or socioeconomic standing. The effective use of AI technologies depends on ethical factors like informed consent and data protection. Even though AI has the potential to improve educational outcomes and provide novel teaching techniques, risk management is crucial to ensuring that AI is integrated into education in a fair and efficient manner. All things considered, AI has the ability to greatly improve education by providing creative answers to age-old problems. However, due diligence in its application and supervision are necessary to resolve the moral and practical concerns related to its application in the classroom.

KEYWORDS: Artificial intelligence, Education, Teaching, Potential, Learning, Interaction, intelligence, Classroom, Risk management.
