Role of Artificial Intellegence in Teaching and Learning in Higher Education

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Abstract

The integration of Artificial Intelligence (AI) in higher education is revolutionizing teaching and learning practices, transforming traditional methodologies into dynamic, student-centered approaches. This paper explores the multifaceted role of AI in higher education, focusing on its applications in teaching, such as personalized learning experiences, automated grading, and streamlining administrative tasks. Additionally, it examines AI's impact on learning through adaptive learning platforms, intelligent tutoring systems, and enhanced accessibility for diverse learners. While AI holds immense potential, challenges such as ethical concerns, data privacy, and the digital divide must be addressed to ensure equitable and effective implementation. This research also highlights future perspectives, emphasizing the need for collaboration between educators and AI technologies to foster innovation and maintain the essential human element in education. The findings underline the transformative potential of AI while advocating for a balanced, ethical, and inclusive approach to its adoption in higher education.