ABSTRACT

The rapid integration of Artificial Intelligence (AI) tools in education transforms traditional learning environments, offering unprecedented support in personalizing instruction, enhancing student engagement, and improving administrative efficiencies. This paper examines the impact of AI in various educational contexts, including personalized learning systems, automated grading, intelligent tutoring systems, and administrative management. AI tools enable educators to tailor content to individual student needs, allowing for more adaptive learning experiences that accommodate diverse learning styles and paces. Additionally, AI-powered analytics offer insights into student performance and behavior, helping instructors identify students who may require additional support. However, the deployment of AI in education raises ethical and practical concerns, such as data privacy, potential algorithm biases, and educators' changing roles. This study explores both the benefits and challenges AI poses in education, aiming to provide a balanced view of how AI can be effectively integrated to enhance educational outcomes while mitigating associated risks. The findings highlight the potential of AI to support equitable and accessible education, while also underscoring the need for policies and frameworks that address ethical considerations and maintain the integrity of the learning process.