Role of Artificial Intelligence in Ducation: Do and Don'ts, Scope and Limitations

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Abstract

The increasing availability of Artificial Intelligence and related tools and technologies has made it possible to use AI in various domains of life. In the current paper, we, by using previous empirical and theoretical studies, provided an overview of the use of AI in the education field, its related challenges, and future opportunities. We also noted that AI applications in the education field include enabling the preparation of content, assignments, automated grading, and assistance to students. The field of education is also witnessing an increasing use of AI; however, its scope and related challenges remain unclear. The benefits of AI in education include greater flexibility in terms of time and space and a changing role of the tutor as a facilitator. We also discussed key challenges including ethical issues such as data privacy, lack of inclusion and equity for students of all backgrounds, and lack of human touch. Based on these themes we concluded that AI's role in education will increase in the future, but the challenges also need to be addressed to fully unlock the benefits of AI in the education field. Artificial Intelligence (AI) has the capacity to fundamentally alter the educational system by boosting productivity, encouraging student participation, and enabling more adaptable and individualized instruction. The potential benefits of AI and resolving related issues are a better future for education.AI has various educational applications; chatbots, learning analytics, and intelligent tutoring systems are just a few. AI is driven by natural language processing and machine learning. This study provides a comprehensive analysis of the use of AI in education, highlighting its definition, advantages, disadvantages, and possible uses. The report identifies several key advantages, such as data-driven decision-making, efficient administration, and personalized learning opportunities. However, the study also draws attention to several disadvantages, including concerns about data privacy, ethical dilemmas, and the potential replacement of human educators. In terms of the future, the research sees a bright future for artificial intelligence in education, with possible advancements in virtual reality integration, adaptive learning systems, and universal access to high-quality education. These developments have the power to improve learning outcomes and change the face of education. The study also provides a thorough knowledge of AI's impact on education, highlighting the transformative potential and promoting the ethical and responsible integration of AI.

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