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EMERGING TRENDS OF ARTIFICIAL INTELLIGENCE IN EDUCATION

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ABSTRACT

Artificial intelligence has proved to be immensely capable in solving all the problems of education. Recent trends in education are discussed in this paper. The various layers of AI are discussed in this paper. The paper has brought into the notice that how AI can be used to provide timely feedback and study behaviour change. The paper also discusses the use of AI in assessment and automated grading.

Keywords: Personalized Learning, Learning Analytics, Predictive Analytics, Chatbots and Virtual Assistants

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INTRODUCTION

The advancements in artificial intelligence (AI) technologies have sparked significant interest in their capacity to tackle challenges across diverse fields, with education standing out as a key focal point. Enhancing learning outcomes and ensuring accessible education for everyone have emerged as prominent global objectives, transcending boundaries between developed and developing nations. These objectives have gained heightened importance in the contemporary age of technology-driven personalization.

In the past few decades, there has been substantial progress in understanding the mechanisms of learning. Research has identified a set of practices collectively known as learning science, which, when systematically applied, can assist learners in maximizing their learning capabilities. Nevertheless, these effective practices have not been consistently integrated into educational curricula. Instead, individual teachers have largely taken the initiative to incorporate them based on their personal experiences and judgment. It was first recognized by John Seely Brown in 2010. He mentioned that all learning does not happen inside the classroom, arguing forcefully for blurring the distinction between formal learning [classrooms] and informal learning [outside]. He prophesized three influences as shaping the future of education – the digital age, social learning and technology [1].

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The impact of these influences was very relevant in the corona virus pandemic. It has brought lasting changes to the dynamics of interaction among education stakeholders. An estimated 1.8 billion learners and 95 million teachers were compelled to vacate traditional classrooms for an extended period (UNESCO, 2020) [2]. Virtually overnight, a majority of educational institutions shifted to online platforms and has continued in either fully remote or hybrid learning models for approximately 20 months. This abrupt move to remote learning has uncovered certain advantages, presented intriguing challenges, and triggered transformations in the educational landscape.

Layers of AI in education

The emerging trends of AI in education can be organized into several layers, each representing

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