Chapter 15

Learning With Artificial Intelligence Systems:
Application, Challenges, and Opportunities

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ABSTRACT

Artificial intelligence (AI) is a part of our lives. Everything that we do on the internet is influenced to various extents by AI. It can automate various tasks in education as well as in other domains. Education domain is mainly benefited by AI, especially for the learning purpose. There may be the software to perform all activities which needs automation. This software can point out that course needs improvement. An AI software can give students and educators helpful feedback. Data, which is powered by AI, also helps schools, teachers, and supports students. There are lots of benefits of AI in education, which improves the learning experience of the students, for example personalization, teaching, grading, feedback on course quality, creating a global classroom, monitoring performance, and a lot more. When a new promising technology emerges and when the limitation of technology and the challenges of applying are often not perfectly understood, then the technology may seem to open radically new possibilities for solving old problems.

DOI: 10.4018/978-1-7998-4763-2.ch015
1. INTRODUCTION

Artificial intelligence (AI) is considered as the capacity and headway of information development-based PC systems or various machines to complete the assignments that regularly require individual data and cognitive thinking (Andrea et al., 2015). Notwithstanding the way that AI can improve the world a spot. Every single human activity depends on foreseen fates. We can’t know the future since it doesn’t exist yet, yet we can utilize our present information to envision fates and get them going. The better we comprehend the present and the history that has made it, the better we can understand the conceivable outcomes of things to come (Bayne, 2015). To value the chances and difficulties that computerized reasoning (AI) makes, we need both a decent comprehension of what AI is today and what the future may bring when AI is broadly utilized in the public eye. Simulated intelligence can empower better approaches for picking up, instructing, and training, and it might likewise change the network in manners that present new difficulties for instructive foundations (Bostrom, 2006). It might intensify ability contrasts and enrapture occupations, or it might even out open doors for learning. The utilization of AI in training may produce bits of knowledge on how learning occurs, and it can change how information is evaluated (Growing Science, n.d.). It might re-arrange study halls or make them old, it can expand the proficiency of educating, or it might constrain understudies to adjust to the prerequisites of innovation, denying people of the forces of office and opportunities for dependable activity. AI is presently a piece of our regular lives. This innovation encompasses us from a programmed stopping framework, keen sensors for taking terrific photographs, and individual help (Daisy Group, n.d.).

Also, AI in instruction is actually handled, and the customary strategies remain evolving radically. The real world is turning out to be gradually valuable and modified on account of the numerous consumptions of AI for instruction; this has altered how people study meanwhile educational resources are receiving available to all finished shrewd gadgets and PCs (Frankish et al., 2011). AI is likewise permitting the computerization of authoritative errands, allowing organizations to confine the required to complete irksome assignments so the instructors can contribute more vitality with understudies (Botrel et al., 2015). An ongoing report from e-School news found that the utilization of AI in the instruction business would develop by 47% through 2021 as we move towards an increasingly associated world. The innovation’s effect will exist somewhere in the range of kindergarten through advanced education, offering the chance to make versatile learning highlights with customized instruments to improve the understudy understanding (McGovern et al., 2011; Torrey, 2012). The innovation might have the option to hiter illuminate understudies what their activity possibilities may resemble dependent on their specific story also, helping them past their scholarly life. Work combination is helping associations with acute
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