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Editorial

AI in Education

"Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important."

– Bill Gates

A recent force to reckon with in the 21st century, Artificial intelligence (AI) is gaining foothold in finance, healthcare, automotive as well as education sector. This proves that it is able to execute different kind of tasks without human intelligence such as gathering and processing the data as well as making decisions. In education AI transforms the learning experience for both teachers and students. One of the defining milestones enabled by AI technology is personalized learning.

AI is also swiftly becoming an important helper for teachers as they have to dedicate many hours to lesson preparation, making assignments and grading, managing documentation, and writing tests. AI is capable of automating some of these routine tasks. One more great advantage of AI is intelligent tutoring. AI can make a big difference in terms of education that is accessible to everyone. For example, AI systems which include speech synthesis and recognition technologies, translation tools and language processing software can help learners to deal with some difficulties in learning.

Moreover, educational organizations accumulate big amounts of information connected to the attendance of students, results of examinations and assessments, and students' activity. AI can process these large volumes of information and draw out the patterns which can be hidden from the eyes of people working in educational institutions.

Even though AI has numerous advantages in education, it also brings a number of challenges. One of the major issues connected with AI in education is academic dishonesty. Students may use AI technology to write essays, solve homework assignments, or finish their work without proper learning of the subject. Too much reliance of students on AI may result in losing such crucial skills as critical thinking, creative thinking, independent research, and problem solving.

The issue of privacy and security of data is major concern connected with the use of technology in education. Educational institutions are responsible for treating such data in the proper way and keeping it secure from intrusion.

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Another issue of concern is the digital divide. Not every student has the same opportunity to access computers, smartphones, high-speed internet, or advanced educational software. Thus, students belonging to economically disadvantaged communities might not be able to fully enjoy the benefits of artificial intelligence.

It should also be noted that artificial intelligence is not able to replace teachers completely. The process of education includes a lot of things that cannot be replaced with technology. Teachers motivate students, understand their feelings, help them find creative solutions, and help resolve conflicts. These qualities of human beings are hardly possible to imitate with machines.

With the advent of AI, the requirement for students to be prepared for a changing world becomes paramount. The students should achieve not only digital literacy as defined by traditional means but also gain knowledge about AI. This means that students should know how the AI system operates and how to assess the AI-generated information. In addition, it is essential to know how to identify errors caused by the AI technologies.

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