

THE ROLE OF ARTIFICIAL INTELLIGENCE IN MODERN TEACHING

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Abstract: The emergence of artificial intelligence (AI) in education is transforming traditional teaching methods by introducing intelligent systems that personalize learning, support teachers, and increase student engagement. This article explores how AI contributes to modern teaching through personalized content delivery, automated assessment, and intelligent tutoring systems. It also highlights the role of AI in language learning, data-driven decision-making, and reducing teacher workload. While the benefits of AI are numerous, challenges such as data privacy, technological inequality, and the importance of preserving human interaction are discussed. The article concludes that a balanced integration of AI with human-led instruction can enhance educational outcomes and create inclusive learning environments.

Keywords: Artificial intelligence in education, personalized learning, AI tutoring systems, language learning technology, teacher support, automated assessment, digital learning tools, ethical issues in AI, blended teaching, data-driven education

Artificial intelligence is rapidly changing the way education is delivered across the world. As one of the most powerful modern technologies, AI is being integrated into teaching practices to improve learning outcomes, support teachers, and create more personalized educational experiences for students. In today's classrooms, where traditional teaching methods are being combined with digital tools, AI offers an innovative approach to education that aligns with the needs of 21st-century learners.

One of the most important benefits of artificial intelligence in teaching is the ability to personalize learning. AI-powered systems can adapt lessons and exercises to match each student's individual learning level, pace, and interests. For example, platforms such as Duolingo, Coursera, and Khan Academy use AI algorithms to provide content based on a learner's progress and performance. This makes learning more engaging and effective, especially for students who need extra support or wish to advance faster.

Another major role of AI in education is seen in intelligent tutoring systems. These systems serve as virtual tutors that can offer instant feedback and explanations without the need for a human teacher. Students can practice difficult subjects like math or grammar and receive help step by step. AI tutors can be available at any time, allowing students to study and improve outside of normal class hours. This not only

increases student independence but also reduces the pressure on teachers who have to manage large classrooms.

In addition, artificial intelligence helps teachers by automating repetitive tasks such as grading, test creation, and data analysis. This saves teachers valuable time and allows them to focus on more creative and interactive aspects of teaching. For example, AI tools can quickly assess multiple-choice tests or even essays, giving immediate feedback to students. Moreover, teachers can use data collected by AI systems to track student performance and identify areas that need more attention.

AI also plays a significant role in language learning. With the help of natural language processing and voice recognition, learners can improve their speaking, listening, and writing skills. Applications like ELSA Speak or HelloTalk provide real-time pronunciation feedback and conversation practice with native speakers or AI-powered bots. These tools are especially useful for students who may not have regular access to foreign language environments but still want to develop fluency.

Despite the many benefits of artificial intelligence, there are also challenges and ethical issues to consider. One concern is data privacy, as AI systems often collect and analyze personal information from students. It is important to ensure that this data is protected and used responsibly. Another issue is the risk of inequality—students in schools with limited access to technology may fall behind their peers in more developed areas. Teachers and policymakers must work together to make sure AI is used fairly and does not increase the digital divide.

Moreover, it is essential to remember that while AI can support education, it should not replace the human touch. Teachers bring empathy, creativity, and personal connection to the classroom—qualities that machines cannot fully replicate. Therefore, the most effective educational environments will be those where AI and human teachers work together. AI can assist in planning, teaching, and assessment, but it is the teacher who guides, inspires, and motivates students.

In conclusion, artificial intelligence is reshaping the world of modern teaching. From personalized learning paths to virtual tutors and smart language learning tools, AI is making education more efficient and accessible. However, its use must be balanced with ethical responsibility and a focus on maintaining the human element in teaching. As technology continues to advance, educators must embrace innovation while ensuring that learning remains meaningful and inclusive for all.

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