

того, он побуждает обучающихся активно участвовать в занятиях, повышая уровень усвоения знаний. Занятия, организованные по этому методу, помогают не только эффективно освоить материал, но и формируют у студентов навыки самоконтроля, самооценки и умения делать выводы. В связи с этим широкое внедрение данного метода в образовательный процесс, его интеграция с современными педагогическими технологиями и практическое применение являются одной из приоритетных задач современной системы образования.

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THE IMPACT OF ARTIFICIAL INTELLIGENCE ON EDUCATION TODAY

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Artificial Intelligence in Education in the 21st Century

In the 21st century, digital technologies are rapidly developing and penetrating into all aspects of our lives, particularly in the field of education. The introduction of Artificial Intelligence (AI) technologies plays an important role in improving the quality of education, personalizing the learning process, and reducing teachers' workload [1]. This article examines the main directions, practical applications, advantages, and challenges of AI technologies.

The Concept and Main Capabilities of Artificial Intelligence

Artificial Intelligence is a system that enables the implementation of functions characteristic of human intelligence (logical thinking, learning, decision-making) through technical means[2]. Today, AI algorithms can analyze large amounts of data and provide solutions tailored to users' needs. These technologies are opening up broad opportunities in education[3].

Practical Applications of Artificial Intelligence in Education

1. **Personalized learning** – Creating individual programs tailored to students' age, knowledge level, and learning style[4].
2. **Automated assessment** – Using AI to evaluate tests, essays, and assignments quickly, accurately, and fairly[6].
3. **Virtual teachers** – Interactive assistants that can help learners at any time.
4. **Language learning platforms** – Learning languages through interactive, real-time analysis based on Natural Language Processing technology[7].

5. **Monitoring and analysis** – AI automatically tracks students’ activities, participation, and achievements[9].

The Role of Artificial Intelligence in Higher Education

Today, AI technologies are widely implemented in higher education institutions. Universities and institutes use AI-based platforms to automate curricula, analyze students’ knowledge, and ensure an individual approach. For example, with AI, students’ participation, performance in assignments, and knowledge levels are constantly monitored, which contributes to the effective organization of the learning process [1]. At the same time, many higher education institutions already integrate AI functions into their Learning Management Systems (LMS): content is recommended based on users’ learning speed, interests, and proficiency level[8]. This is especially relevant for distance education.

Students’ Attitude

Surveys and observations conducted in recent years show that students have a positive attitude toward AI technologies [3]. They note that such technologies help to:

- accelerate the learning process;
- expand opportunities for self-assessment;
- create an engaging and interactive learning environment.

However, some students point out that excessive reliance on technology may reduce human interaction and critical thinking [5]. They also emphasize that in some cases, AI recommendations are not fully accurate, and the teacher’s opinion is still essential.

Advantages and Challenges

Advantages:

- Improving the quality of education;
- Saving time for both students and teachers;
- Creating a learner-centered educational environment;
- Developing digital literacy.

Challenges:

- Privacy and personal data security;
- Technological failures and dependence on them;
- The risk of the teaching profession becoming automated;
- Reduction in social and emotional interaction.

Conclusion

Artificial Intelligence is becoming an integral part of modern education. It not only increases the efficiency of the learning process but also promotes innovative pedagogical approaches. At the same time, when implementing it, human factors, ethical and social aspects, and security issues must be taken into account. AI technologies are tools, but the main role still belongs to the teacher.

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