

**"THE IMPACT OF ARTIFICIAL INTELLIGENCE ON THE EDUCATION
PROCESS"**

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Methodology

Introduction. In the 21st century, the development of the educational process is significantly changing in connection with the widespread use of modern technologies, especially artificial intelligence. The use of artificial intelligence technologies in the educational process not only optimizes the teaching process by considering the individual needs of students, but also simplifies pedagogical activities and increases their effectiveness. For this reason, the integration of artificial intelligence into the education sector is increasingly becoming an important component of modern pedagogy.

Today, the role of technologies in the educational process at the graduate level is steadily increasing. Digital technologies expand the possibilities for students to conduct scientific research, allow for rapid and systematic data analysis, and simplify the process of developing individual learning plans. This increases the significance of using artificial intelligence for the development of scientific research skills in graduate students.

This study will scientifically analyze the role of artificial intelligence technologies in the educational process, their importance in improving pedagogical methodologies, and the opportunities they create for graduate students. Additionally, the positive impact of artificial intelligence on scientific research activities and its effective application in the educational process will be discussed.[4]

The relevance of this work is determined by the necessity of integrating artificial intelligence into the educational process and its contribution to the future development of the education system. Therefore, studying the impact of artificial intelligence technologies on the educational process is not only of scientific importance but also has significant practical value.

The use of artificial intelligence in the educational process plays a crucial role in ensuring the necessary pedagogical conditions and is an important factor as a component of the educational system. Using artificial intelligence in education is a technological approach to developing scientific research skills. In recent years, the role of technologies in the educational process at the graduate level has been increasing. Technologies allow graduate students to access information and expand opportunities for quality education, while overcoming time and spatial limitations. New technologies automate and simplify long and time-consuming tasks. Today, a number of advanced foreign universities are effectively using digital technologies to streamline processes such as task management, registration of students, and improving the quality of education for students, which is facilitated by artificial intelligence technologies.

The current state and development level of modern higher education requires constant improvement. This also leads to changes in the State Education Standards, contributing to improvements in education quality and the identification of promising pathways for the upbringing of the next generation.

The use of technological tools in organizing scientific research helps to increase flexibility in the research field, facilitate research processes, and improve the quality of results. These

technologies provide opportunities for organizing scientific research systematically and quickly. One such technology is artificial intelligence, which facilitates better use of information databases and sources for educational processes.

The integration of artificial intelligence into pedagogical education is supported by legal frameworks, with the aim of improving pedagogical processes. For instance, the President of the Republic of Uzbekistan approved a decree on October 5, 2020, entitled “Digital Uzbekistan – 2030,” which outlines a number of tasks for its successful implementation.[3]

The impact of artificial intelligence in education is deep and extensive. First of all, AI presents learning materials that align with each individual’s learning pace and style, offering personalized learning experiences. For example, an adaptive learning system analyzes the student’s activities and provides more practice in areas they haven’t mastered, helping them catch up. AI also helps reduce the workload of teachers, contributing to their more efficient performance. Automating tasks like grading assignments and tests allows instructors to interact more directly with students and focus more on content creation.[1]

Furthermore, AI-based analysis tools help monitor students’ progress and recommend additional resources to enhance their learning experience. In modern education and online platforms, AI increases student motivation by offering interactive and engaging content. Virtual assistants and chatbots provide round-the-clock support, answering students’ questions instantly and helping them resolve any issues that arise during their learning journey, especially in online education, which became even more significant during the pandemic.

Artificial intelligence brings innovations and conveniences to educational processes and causes significant changes in pedagogical methods. AI-based systems suggest individual learning plans by analyzing students’ learning pace, interests, and difficulties. This allows students to progress at their own speed and improves their success levels.[2]

Moreover, AI integration into pedagogy simplifies the work of graduate students and researchers. By automating repetitive tasks like grading, AI frees up more time for personalized support and crafting lesson plans. It also contributes to simplifying research tasks, such as data analysis and helping students carry out complex tasks more effectively.

AI-based teaching tools, such as virtual assistants and chatbots, also facilitate the learning process by providing immediate responses to student inquiries, thus enhancing the teaching process’s effectiveness. AI analyzes educational data to suggest improvements to teaching methods and curricula, ultimately contributing to a more efficient and personalized educational experience.

Conclusion

In conclusion, AI technologies play an essential role in modern educational processes, improving efficiency in pedagogical practices and providing significant opportunities for personalized learning, research, and interactive teaching. The integration of AI technologies into educational systems, especially in the context of online and distance learning, allows for more tailored and accessible education. These advancements support global competitiveness and create an environment where educational standards meet digital transformation needs.

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