

## THE IMPORTANCE OF ARTIFICIAL INTELLIGENCE IN THE EDUCATION SYSTEM

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**Annotation:** This article analyzes artificial intelligence (AI), which is currently becoming a key tool in the education system amid globalization, helping to create numerous opportunities among the students of the 21st century. AI is facilitating the implementation of many innovations, encouraging teachers to adopt an interactive approach to lessons, and providing the ability to translate books into any desired language. Additionally, this technology helps strengthen international relations and enables users to receive complete answers to complex questions.

**Key words:** Artificial Intelligence (AI), Innovations, Education System Interactive Lessons, Personalization, Effectiveness.

**Anotatsiya:** Ushbu maqolada, bugungi kunda globallashayotgan, XXI asr talabalar o'rtasida ko'plab sharoitlar yaratilishga yordam berayotgan, ta'lim tizimida ko'plab yangiliklar amalga oshirishda asosiy vositachi bo'layotgan, o'qituvchilar uchun darsarga interaktiv tarzda yondashishga turtki bo'layotgan, ko'plab tillardagi insonlar bajara olmayotgan kitoblarni o'z istagan tiliga tarjima qilib bera olish imkoniyatiga ega bo'lgan sun'iy intellekt (AI) haqida tahlil qilingan. Bundan tashqari, bu orqali xarqaro munosabatlarni mustahkamlanishiga ko'maklashish, javobsiz jumboqlarga to'liq javob ololishligini taminlaydi.

**Kalit so'zlar:** Sun'iy intellekt (AI), innovatsiyalar, ta'lim tizimi, interaktiv darslar, shaxsiylashtirish, samaradorlik.

**Аннотация:** В этой статье говорится о искусственном интеллекте (ИИ), который сейчас становится важным инструментом в системе образования из-за глобализации. ИИ помогает создавать много новых возможностей для студентов XXI века. Он способствует внедрению новых идей, поощряет учителей использовать интерактивные методы на уроках и позволяет переводить книги на любой язык. Также эта технология помогает укреплять международные отношения и даёт возможность получать полные ответы на сложные вопросы.

**Ключевые слова:** Искусственный интеллект (ИИ), инновации, система образования, интерактивные уроки, персонализация, эффективность.

Acquiring knowledge and teaching it is indeed a challenging task; being able to provide someone with the right information is an art in itself. To ensure that this knowledge is retained, using various examples and materials during lessons indicates a passion for the profession. Today, conducting lessons through certain technological methods is no longer a novelty for anyone. Currently, technologies are deeply infiltrating almost all areas of life, and the education system is not excluded from this process. One of the newest and most effective innovations in education is artificial intelligence (AI). With its development, AI creates opportunities to manage educational processes more effectively, interactively, and in a personalized manner. The education system plays an important role not only in enhancing students' knowledge but also in increasing teachers' efficiency and making lessons more interesting and interactive. The role of AI in education leads to the personalization of the educational process by ensuring flexibility to meet the needs of both students and teachers. Providing students with materials that match their abilities, automating assessment systems, relieving teachers of administrative burdens, as well as analyzing and forecasting the learning process will elevate the quality of education to a new level." (THE SIGNIFICANCE OF ARTIFICIAL INTELLIGENCE IN THE EDUCATION SYSTEM by Boynazarov Otabek Murot o'g'li, Teacher of Information Technologies Cycle at the Ministry of Internal Affairs Advanced Training Institute - 2025)

Today, many opportunities are being created for young people to acquire education; they have the ability to expand their thinking horizons and strengthen their knowledge, thus developing themselves. Nowadays, instead of finding answers to their questions by reading books, people can easily find answers with the help of the internet. It is worth noting that companies like Google, IBM, and Microsoft are putting significant emphasis on developing education systems with AI assistance. Platforms like Coursera, Khan Academy, and Udemy also offer AI-based personalized courses. In the future, it is expected that the education system will further develop with the help of artificial intelligence. AI algorithms will become even smarter, helping to increase the efficiency of the educational process. Virtual teachers and AI-driven educational environments may serve as alternatives to traditional teaching methods." (PERSONALIZED TEACHING WITH THE HELP OF ARTIFICIAL INTELLIGENCE: INDIVIDUAL LEARNING PLANS by Sidiqova Yulduz Sobirovna, Teacher at Asia International University - 2025)

I must mention that students frequently use AI, especially when writing essays or looking for ideas for articles; we often turn directly to it for assistance. Sometimes, we find it hard to find a better advisor than AI. As for teachers, they strive to make each lesson engaging; they bring various warm-up activities and interesting information to ensure that students do not get bored during classes. For instance, there is hardly a student who hasn't used the Kahoot program.

During many demo lessons, we can assess students' knowledge and understanding of the topic through this platform.

Education is one of the most important sectors of society. It is connected to all other fields and has a significant impact on them. Therefore, education is essential for all layers of society, regardless of any obstacles. For example, during the COVID-19 pandemic, the challenges faced by the education sector became clear and attracted the attention of many researchers. However, societal problems are not limited to pandemics alone; issues such as access to education, difficulties in reaching real classrooms, and financial problems are also among them. There are many solutions to these problems, and more will be developed in the future. This research, however, focuses on a technology-based solution — artificial intelligence (AI). (ARTIFICIAL INTELLIGENCE AND ITS ROLE IN EDUCATION Sayed Fayaz Ahmad Sustainability 2021, 13(22), 12902; <https://doi.org/10.3390/su132212902>)

Since the pandemic began, regular online classes have been established in schools, and we have even gained the ability to observe our teachers and classmates remotely through these lessons.

An intelligent system capable of testing a student's knowledge, providing information, and facilitating interaction is called an Intelligent Tutoring System (ITS). This is one of the most advanced methods of delivering information to students. Like a teacher, ITS provides education tailored to each student's level of knowledge and priorities. ITS can teach students in the following way: first, it explains theoretical information with examples, then it asks the student questions. ITS has the ability to understand the answers given by students and assess their level of knowledge. Based on this, it provides appropriate materials and new questions. Students can also ask questions, and ITS is capable of responding or solving problems within its scope of knowledge. (ARTIFICIAL INTELLIGENCE AND ITS ROLE IN EDUCATION Sayed Fayaz Ahmad Sustainability 2021, 13(22), 12902; <https://doi.org/10.3390/su132212902>)

In conclusion, artificial intelligence is widely used among people, and it is clear that it has capabilities that have yet to fully emerge. All teachers and students can teach and learn without this intelligence, but in an era that demands such technological tools, no one can deny its use. It is not only necessary for conducting lessons but also plays a significant role in enriching our minds with essential information. Moreover, whether people like it or not, current curricula and teaching and learning methods are closely linked to this intelligence. I must say that its importance for the education system is very great, and it also requires the ability to effectively utilize it.

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