

THE IMPACT OF ARTIFICIAL INTELLIGENCE IN LEARNING FOREIGN LANGUAGES

<https://doi.org/10.5281/zenodo.16139311>

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Abstract

This article is a scientific analysis of the main advantages of artificial intelligence technologies in teaching foreign languages, their pedagogical effectiveness, and their integration into the educational process.

Keywords

Artificial intelligence, information technologies, English, teaching methods, modern education, innovative approach.

In recent years, information technologies, especially artificial intelligence (AI) technologies, have become an integral part of the educational process. Artificial intelligence tools that create interactivity, flexibility, and individual approach opportunities are gaining particular importance in teaching foreign languages. Globally, artificial intelligence-based platforms such as Duolingo, Babbel, and Rosetta Stone offer innovative approaches to language teaching. Artificial intelligence tools are also becoming a strong competitor to traditional teaching methods by analyzing students' speech, correcting pronunciation, checking written work, and providing real-time feedback.

The Decree of the President of the Republic of Uzbekistan Sh. M. Mirziyoyev No. 6079 dated October 5, 2020 "On approval of the "Digital Uzbekistan - 2030" strategy and measures for its effective implementation" and the Resolution No. 4996 dated February 17, 2021 "On measures to create conditions for the accelerated introduction of artificial intelligence technologies" made it possible to systematize and organize work in this area. In particular, the "Program of measures to improve the position of the Republic of Uzbekistan in the Artificial Intelligence Readiness Index" was approved. It focuses on the development and use of artificial intelligence technologies in economic sectors and the social sphere, in the public administration system, and the introduction of these technologies in the fields of agriculture, energy, healthcare, and e-government.

The role of artificial intelligence in education is unparalleled. It helps to improve the quality of education, improve communication between teachers and

students. In addition, artificial intelligence makes learning more convenient and interesting. Each student has the opportunity to independently study a subject through artificial intelligence. Artificial intelligence plays several roles in education:

- **Personalized learning:** artificial intelligence can adapt educational materials and pace to individual students' needs and learning styles, providing a personalized learning experience.
- **Intelligent tutoring systems:** Artificial intelligence-based tutoring systems provide students with feedback and guidance, helping them understand difficult concepts and improve their skills.
- **Virtual Assistants:** AI-powered virtual assistants can help both students and teachers by answering questions, providing notes, and providing guidance on courses and assignments.
- **Administrative Task Automation:** AI can streamline administrative tasks such as grading, scheduling, and bookkeeping, freeing up teachers to focus on teaching and advising students.
- **Accessibility:** AI technologies can make learning more accessible for students with disabilities by providing text-to-speech, speech recognition, and other localization tools.
- **Language Learning:** AI-powered language learning platforms can provide interactive lessons, pronunciation feedback, and language practice exercises tailored to the needs of individual students.

AI-powered platforms use machine learning algorithms to analyze students' strengths, weaknesses, and learning styles. By understanding individual needs, AI can tailor learning materials, exercises, and assessments to suit each learner's pace and style. This personalized approach ensures that students receive targeted guidance and support, maximizing their language acquisition and retention. One of the most important benefits of AI in English learning is its ability to provide interactive language practice. Chatbots and virtual language assistants simulate real-life conversations, allowing students to engage in dialogue, receive instant feedback, and practice speaking and listening skills in a supportive environment. Through ongoing interaction, students develop confidence, fluency, and natural communication skills. Traditional methods of language assessment often lack speed and specificity, making it difficult for students to identify and correct their errors. AI-powered feedback systems analyze student responses in real time and provide immediate and personalized feedback on grammar, pronunciation, vocabulary use, and more. By identifying areas for improvement, students can improve their language skills. With AI, students have access to a wide range of authentic English resources, including articles, videos, podcasts, and news from around the world. AI

algorithms tailor content based on students' interests, proficiency levels, and learning goals, ensuring it is relevant and engaging. By immersing students in real-world language contexts, students improve their comprehension skills and expand their vocabulary.

The past few decades have witnessed remarkable advances due to the increase in computing power, the availability of large data sets, and innovations in algorithms. Deep learning, which involves multi-layered neural networks, has led to breakthroughs in areas such as image and speech recognition. Artificial intelligence is a dynamic and rapidly evolving field with deep historical roots and diverse interdisciplinary connections. Its impact on society and technology continues to grow, making it an important area of research in modern education, particularly in foreign language teaching. Language learning is a complex process that involves a variety of cognitive, emotional, and motivational factors. In recent years, artificial intelligence has emerged as a transformative direction in education, offering new opportunities to engage and motivate foreign language learners to acquire new knowledge and skills. This article aims to explore the role of artificial intelligence in increasing motivation and engagement levels in language learners.

One of the biggest advantages of artificial intelligence technologies in learning English is that it allows students to receive constant and immediate feedback. As Warschauer and Grimes point out, Artificial Intelligence systems help make the language learning process interactive and interesting for students. For example, through artificial intelligence, students can check their pronunciation, learn grammar and vocabulary correctly. It also provides students with the opportunity to strengthen their language skills with automatically analyzed exercises and tests. We can learn about the advantages of artificial intelligence from the above-mentioned aspects. That is, a big advantage of online platforms is self-assessment. In this case, the student can monitor himself during the process of learning foreign languages through the system in the program or from the management system on the platform. That is, the student can determine when they can use it, how much homework they want, or the types of games they want, creating a convenient opportunity for users. In addition, when using artificial technology, students have the opportunity to quickly receive feedback, in short, comments, which motivates them to work harder. The results of the conducted research and observations made it possible to analyze in more depth the impact of artificial intelligence technologies on English language teaching. The main results, which were compared with the opinions of students and teachers, classroom observations, and existing literature, are as follows. Students who regularly use artificial intelligence technologies (tools such as Duolingo, Grammarly, Google Translate, ChatGPT) reported significant

positive changes in grammar, pronunciation, vocabulary, and written speech. 78% of survey participants admitted that artificial intelligence-based applications improved their English language skills. With the help of Grammarly, the number of errors in written assignments decreased, and students had the opportunity to work on their writing style.

Through Duolingo, students were able to learn new words in an interactive and interesting way. At the same time, we are witnessing significant results as artificial intelligence has improved. The most used and upcoming tools such as Google Translate, ChatGPT, Duolingo are considered the most used programs. Following this, students' shortcomings in the learning process such as grammar and pronunciation have significantly decreased.

Artificial intelligence-based learning platforms offer students the ability to study anytime, anywhere, at their convenience. Through mobile applications, web platforms, and smart devices, students can access a wide range of learning resources, including lessons, quizzes, flashcards, and multimedia content. This adaptive intelligence includes a variety of study schedules and lifestyles, which allows students to make consistent progress in their English language journey. Students should consider AI for language learning because it enables personalized learning experiences, real-time feedback, and access to vast amounts of language data and resources. AI-powered language learning platforms can adapt to individual learning styles, provide interactive exercises, and effectively track progress, making the language learning process more effective and engaging.

In conclusion, the integration of AI in foreign language teaching and learning is creating new opportunities for increasing student motivation and engagement. Through the experience of an individual approach, AI meets the needs of students, thereby creating an environment in which all students can learn the language effectively. AI's adaptive learning algorithms can identify and solve difficulties, provide customized resources, and provide instant feedback. This individual approach ensures that students receive content and challenges at their own level, increasing engagement and retention. This targeted approach ensures student engagement and motivation, as the learning process is closely related to their specific needs and pace. In addition, AI-based analytics provide teachers with insight into student performance and engagement levels, allowing them to make informed decisions to optimize teaching strategies. Interactive content created with the help of game elements and artificial intelligence can make the learning process more interesting and lifelike, increasing the activity and motivation of students. AI technologies allow students to access educational content anytime and anywhere, eliminating the limitations of a traditional classroom lesson. This flexibility allows

for continuous learning and practice, which is very important for language acquisition.

This information helps teachers adjust their instructions and identify areas where students need additional help. Artificial intelligence can evaluate and provide feedback on student creative work. It can assess oral and written language skills, make corrections and suggestions for improvement. This, in turn, makes the teacher's work a little easier and can be a practical support for young teachers.

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