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## The Role of AI and their Importance in Teaching Foreign Languages

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### ARTICLE INFO.

### Abstract:

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In this article, the authors focus on the relevance and incomparable role of artificial intelligence in teaching foreign languages. This article also discusses the importance of several modern artificial intelligences in teaching and learning.

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Today, the government of the Republic of Uzbekistan is giving more attention to improve the study of foreign languages. In particular, on 19.01.2022, the Cabinet of Ministers adopted decision No. 34 "On additional measures to improve the study of foreign languages". On the basis of this decision, all educational institutions, including higher education, provide information on the use of modern educational and scientific literature published in prestigious foreign countries. On the basis of this decision, the development and introduction of information and communication technologies, software projects to the popularization of foreign languages is also established, that is, such effective work is strengthened by law.

Technologies based on artificial intelligence are a clear example of this. A new generation of such technologies was presented to the public this year and is being improved day by day. Midjourney, ChatGPT, Teslabot, Teachable AI, Duolingo, Smart Content, carnegie learning, IBM Watson Education, Knewton, Cognii, Gradescope, JukinMedia, SPARKvue and other artificial intelligences are used in education and training. We will try to give more information about its importance in the education and teaching.

AI (Artificial Intelligence) has made significant strides in transforming the field of education, particularly in teaching foreign languages. With the rapid advancement of technology, AI tools and

applications have expanded learning possibilities, providing personalized, efficient, and interactive language learning experiences. Research by a team at Carnegie Mellon University shows that speech recognition technology embedded in language learning tools can provide accurate assessments of pronunciation and fluency, leading to significant improvements in oral language skills. One of the key roles of AI in teaching foreign languages is its ability to provide personalized learning paths to students. AI-powered language learning platforms can analyze individual learning patterns, strengths, and weaknesses, and then customize the learning materials and exercises to suit the specific needs of each learner. This personalized approach helps students progress at their own pace, ensuring a more effective and engaging learning experience.

AI also plays a vital role in facilitating language practice and communication through speech recognition technology. Language learning applications equipped with AI can accurately assess pronunciation, intonation, and fluency, providing instant feedback to learners. This real-time feedback helps learners improve their speaking skills and gain confidence in using the language. Research by a team at Carnegie Mellon University shows that speech recognition technology embedded in language learning tools can provide accurate assessments of pronunciation and fluency, leading to significant improvements in oral language skills.

In addition to speech recognition, AI language learning tools employ natural language processing (NLP) algorithms to enhance reading, writing, and listening skills. These tools can provide contextualized vocabulary and grammar lessons, as well as offer language exercises that adapt to the learner's level and pace, ultimately facilitating comprehensive language acquisition. Another significant benefit of AI in language education is its role in creating immersive and interactive learning experiences. Virtual reality (VR) and augmented reality (AR) technologies, integrated with AI, enable students to engage in simulated real-world scenarios, such as ordering food at a restaurant or navigating through a foreign city. By experiencing these scenarios in a virtual environment, learners can improve their language skills while developing cultural awareness and understanding.

Moreover, AI-powered language tutors and chatbots provide round-the-clock assistance to language learners. These conversational agents can engage in dialogues, answer questions, and provide explanations, offering learners additional practice and support outside the traditional classroom setting. While AI offers numerous advantages in language education, it is essential to acknowledge its limitations. Despite its capabilities, AI cannot replace human instructors and the authenticity of human interaction in language learning. Language learning is a multifaceted process that involves cultural understanding, emotional connections, and nuanced communication, aspects that AI might struggle to replicate entirely. An analysis by The Association for Computational Linguistics emphasizes the complementary role of AI in language education, acknowledging the unique value of human interaction and cultural understanding in language learning. In conclusion, the role of AI in teaching foreign languages is undeniably transformative.

AI tools and applications have revolutionized language education by providing personalized learning, interactive practice, and immersive experiences. While AI may not replace traditional language instruction, it complements it effectively and expands the opportunities for language learners to improve their proficiency in a foreign language. As technology continues to advance, the integration of AI in language education will undoubtedly play an increasingly vital role in shaping the future of language learning.

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