THE IMPACT OF ARTIFICIAL INTELLIGENCE ON LANGUAGE LEARNING

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Abstract. *This article provides a scientific analysis of the impact of artificial intelligence (AI) technologies on the process of learning foreign languages. It discusses the adaptability of AI tools to learners' individual educational needs, their role in developing communication and pronunciation skills, as well as the challenges and limitations associated with these technologies. The findings of the study show that the integration of AI technologies into the educational process makes language learning more effective, interactive, and motivating. However, since the emotional and cultural aspects provided by human teachers cannot be fully replaced by artificial intelligence, it is emphasized that AI systems should be used wisely and in a balanced manner.*
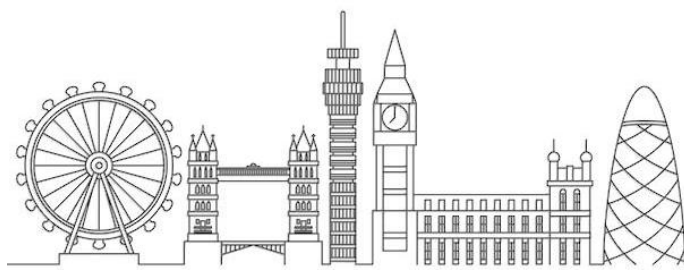
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Introduction

In recent years, the rapid development of artificial intelligence technologies has had a profound impact on all spheres of human activity, including the education system. Today, AI-based applications and programs such as ChatGPT, Duolingo, Grammarly, and Replika are widely used in the language learning process. With the help of these technologies, learners can independently improve their reading, writing, listening, and speaking skills.

Advantages of Artificial Intelligence in Language Learning

Artificial intelligence is an important tool in organizing the language learning process effectively and through an individualized approach.AI technologies—including automated speech recognition, machine translation, and natural language processing systems—present learning materials according to learners' needs and learning pace. Another advantage of AI systems is their ability to provide quick and automatic feedback. For example, when a learner responds, the system can identify errors immediately and offer corrections and explanations. Additionally, AI can help develop speaking, listening, reading, and writing skills. Studies show that AI offers many benefits such as personalizing the language-learning experience, providing rich real-time feedback, and reducing anxiety among second-language learners. Furthermore, AI assists learners in generating ideas for their writing tasks as well.

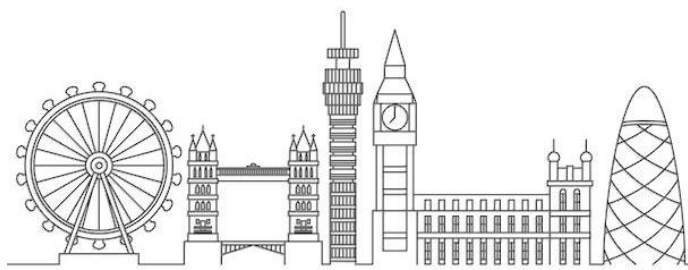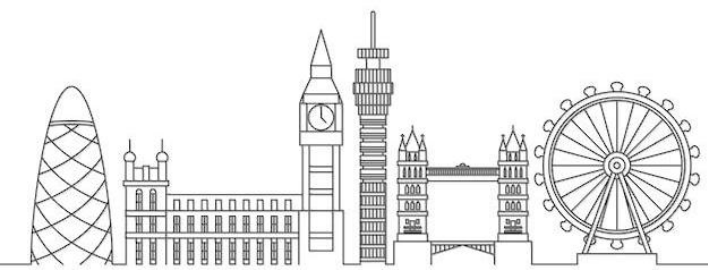The Role of AI Tools in Developing Communication Skills

One of the most important stages of learning a foreign language is the development of communicative competence. Chatbots and conversation simulators created with the help of artificial intelligence provide learners with a communication environment that closely resembles real life. Through such systems, students can practice conversational language, discuss various topics, and expand their vocabulary. In addition, AI-based speech analysis systems identify pronunciation errors and offer suggestions for correction. As a result, learners can independently improve their pronunciation, which enhances their phonetic competence. At the same time, AI technologies enable teachers to organize lessons in a more interactive manner.

The limitations and Challenges of Artificial Intelligence

Although artificial intelligence technologies offer many conveniences in the language learning process, there are also several challenges that can affect their effectiveness. First, there is the limitation of contextual understanding. Language has a complex structure, where idioms, cultural references, and context-specific meanings play an important role. AI systems rely mainly on statistical patterns and algorithms, which restrict their ability to fully grasp cultural and contextual nuances. As a result, misunderstandings or distortions of meaning may occur in translation or explanation in certain situations. Second, personalization is sometimes insufficient. AI-based speech recognition systems cannot fully adapt to users' different pronunciations, dialects, accents, or personal speaking habits. This creates certain limitations in addressing the individual needs of learners. Moreover, the technological flexibility required for a highly personalized learning environment is still not fully developed. Additionally, the lack of emotional, i.e., human-like feelings in AI systems is another noticeable issue. Although AI performs well in processing and analyzing information, it remains weak in recognizing human emotions and responding appropriately. Emotional intelligence—which includes recognizing, understanding, and responding to emotions—is crucial in language learning, as the emotional environment directly influences motivation and learning effectiveness.

Conclusion

In conclusion, artificial intelligence has brought significant changes to the field of language learning. It individualizes the learning process, provides learners with immediate feedback, and creates a realistic communication environment. At the same time, AI cannot fully replace the emotional, cultural, and pedagogical experience that human teachers provide. In the future, it is hoped that the integration of AI technologies with human expertise will make language education even more innovative, effective, and learner-centered.

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