

THE IMPACT OF ARTIFICIAL INTELLIGENCE ON LANGUAGE LEARNING

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Oltiariq tumani 1-son politexnikumi o‘qituvchisi

Abstract: Artificial Intelligence (AI) has revolutionized the landscape of education, particularly in the field of language learning. This paper explores the ways in which AI-driven tools—such as intelligent tutoring systems, machine translation, chatbots, and adaptive learning platforms—enhance language acquisition. It also discusses the challenges and ethical considerations of AI integration and its future potential in shaping personalized, accessible, and efficient language education globally.

Keywords: Artificial intelligence, language learning, EdTech, ChatGPT, adaptive learning, digital education, speech recognition.

The advent of Artificial Intelligence (AI) in education has opened new horizons for personalized and interactive learning. In language education, AI technologies offer novel solutions to age-old challenges: lack of immersion, motivation, individualized feedback, and accessibility. From real-time translation to AI conversation partners, learners today have access to tools that accelerate both comprehension and production of language. This article investigates how AI technologies support language learning, their current applications, their effectiveness, and the future trajectory of AI-powered linguistics education.

Key Applications of AI in Language Learning

1. Intelligent Tutoring Systems (ITS)

AI-based tutoring platforms can assess student proficiency and adapt instruction accordingly. For example, Duolingo uses machine learning to adjust difficulty levels and repeat weak areas for learners, making it one of the most widely used language apps globally (Loewen et al., 2020).

2. Speech Recognition and Pronunciation Feedback

Apps like Elsa Speak and Google Speech-to-Text utilize AI to help learners practice and improve their pronunciation through real-time, individualized corrections

3. Chatbots and Conversational AI

AI chatbots simulate natural dialogues, helping learners practice speaking in realistic settings. Tools like Replika or ChatGPT enable users to interact in multiple languages, increasing fluency and confidence.

Artificial Intelligence has already made substantial contributions to language learning by offering adaptive, accessible, and engaging tools. While challenges remain,

especially in terms of equity and ethics, the future of AI in language education is bright. As technology advances, its role in bridging linguistic barriers and fostering global communication will only expand.

The intelligent application of AI can transform language learning into a personalized, interactive, and more human experience than ever before.

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