

## THE ROLE OF ARTIFICIAL INTELLIGENCE IN TEACHING FOREIGN LANGUAGES

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**Abstract:** *Artificial intelligence (AI) plays an increasingly important role in modern education, including the field of foreign language teaching. This article discusses the effective value of foreign language learning through artificial intelligence. It also provides information on available gamified language learning platforms.*

**Keywords:** *artificial intelligence, intelligent tutoring systems, language learning platforms*

**Аннотация:** *Искусственный интеллект (ИИ) играет все более важную роль в современном образовании, в том числе и в области преподавания иностранных языков. В данной статье рассматривается эффективная ценность изучения иностранного языка с помощью искусственного интеллекта. Он также предоставляет информацию о доступных игровых платформах для изучения языка.*

**Ключевые слова:** *искусственный интеллект, интеллектуальные системы обучения, платформы для изучения языков.*


Artificial Intelligence (AI) plays a significant role in teaching foreign languages, offering various benefits and opportunities for language learners. Here are some ways AI contributes to language education:

1. **Personalized Learning:** AI-powered language learning platforms can adapt to the individual needs of learners. Through machine learning algorithms, these platforms can analyze learners' strengths, weaknesses, and learning styles to provide personalized learning paths, exercises, and feedback. This tailored approach enhances the effectiveness and efficiency of language instruction.

2. **Intelligent Tutoring Systems:** AI can simulate a human tutor by providing interactive and dynamic learning experiences. Intelligent tutoring systems can engage learners in dialogue, assess their understanding, and offer real-time feedback. These systems can identify and address common errors, provide explanations, and offer additional practice tailored to the learner's needs.

3. **Speech Recognition and Pronunciation Improvement:** AI-based speech recognition technology enables learners to practice speaking and receive instant





feedback on pronunciation accuracy. Learners can compare their pronunciation to native speakers, identify areas for improvement, and work towards better phonetic accuracy. This technology enhances speaking skills and builds learner confidence.

4. Natural Language Processing (NLP): NLP allows AI systems to understand and generate human language, enabling learners to practice reading and writing skills. AI-powered language applications can analyze written texts, provide vocabulary and grammar suggestions, detect errors, and offer explanations. NLP also enables language learners to engage in conversations with AI chatbots, practicing their language skills in a supportive and interactive environment.

5. Language Translation and Comprehension: AI-driven translation tools facilitate language learning by providing instant translations of texts, sentences, or entire documents. Learners can use these tools to enhance their comprehension, build vocabulary, and compare translations to deepen their understanding of language structures and idiomatic expressions.

6. Gamification and Immersive Experiences: AI can be used to develop language learning applications and platforms that incorporate gamification elements. Gamified language learning platforms make the learning experience more enjoyable, interactive, and engaging. Virtual reality (VR) and augmented reality (AR) technologies can also create immersive language learning environments, allowing learners to practice language skills in realistic scenarios.


7. Data Analysis and Learning Analytics: AI can analyze vast amounts of learner data to identify patterns, track progress, and provide insights for instructors. Learning analytics can help teachers monitor individual and group performance, identify areas of difficulty, and make data-driven decisions to improve instruction and curriculum design.

What are some examples of gamified language learning platforms that incorporate AI? There are several gamified language learning platforms that incorporate AI to enhance the learning experience. Here are a few examples:

**Duolingo:** Duolingo is a popular language learning platform that utilizes gamification elements. It offers interactive lessons, quizzes, and challenges to engage learners. Duolingo incorporates AI algorithms to adapt to learners' performance, provide personalized feedback, and suggest areas for improvement.

**Memrise:** Memrise combines gamification and spaced repetition techniques to help learners memorize vocabulary and phrases. It offers interactive games, mnemonic devices, and videos to make language learning enjoyable. Memrise also uses AI to track learners' progress, provide adaptive learning paths, and offer personalized review sessions.





**Rosetta Stone:** Rosetta Stone is a language learning platform that uses AI-powered speech recognition technology. It allows learners to practice speaking and receive instant feedback on pronunciation and intonation. Rosetta Stone's immersive learning approach incorporates AI algorithms to adapt lessons based on learners' performance and language proficiency.

**Babbel:** Babbel is an AI-driven language learning platform that focuses on practical conversation skills. It offers interactive dialogues, vocabulary exercises, and speech recognition for pronunciation practice. Babbel's AI algorithms analyze learners' performance and provide personalized feedback and exercises to target specific language areas.

**FluentU:** FluentU is a language learning platform that uses authentic videos, movie clips, and music to teach languages. It incorporates AI to provide interactive subtitles, vocabulary explanations, and quizzes based on the video content. FluentU adapts to learners' preferences and tracks their progress to offer personalized recommendations.

**Lingvist:** Lingvist is an AI-powered language learning platform that focuses on vocabulary acquisition. It uses AI algorithms to determine learners' language proficiency and tailor the learning experience accordingly. Lingvist offers personalized flashcards, exercises, and spaced repetition techniques to optimize vocabulary learning.

These platforms demonstrate how AI and gamification can be integrated to create engaging and effective language learning experiences. However, it's worth noting that the availability and features of these platforms may vary, so it's recommended to explore each platform individually to understand their specific AI-driven capabilities.

While AI offers numerous advantages in language education, it is important to note that it cannot replace human interaction and cultural understanding. AI should be seen as a powerful tool that complements and enhances language learning experiences, supporting learners and teachers in achieving their language proficiency goals.

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