

LEARNING ENGLISH WITH ARTIFICIAL INTELLIGENCE

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Анотація

У даній статті розглядається потенціал штучного інтелекту (ШІ) для вивчення англійської мови. Проаналізовано переваги і виклики, що виникають у процесі застосування онлайн-чат-ботів, перекладачів та дигітальних репетиторів.

Ключові слова: штучний інтелект, англійська мова, онлайн-освіта, нейромережі, мовні моделі.

Abstract

This article explores the potential of artificial intelligence (AI) in learning the English language. The study examines the advantages and challenges of using AI-powered chatbots, translation tools, and digital tutors in the learning process. It highlights how AI enhances personalized learning, improves language comprehension, and provides real-time assistance while also addressing some limitations and ethical concerns.

Keywords: artificial intelligence, English language, online education, neural networks, language models.

Introduction

The advancement of artificial intelligence (AI) has significantly influenced various fields, including education. One of the most promising applications of AI is in language learning, particularly English, which is widely used for global communication. AI-driven tools offer interactive, adaptive, and highly efficient methods to facilitate language acquisition [1]. This article investigates how AI enhances the process of learning English, discussing both its benefits and limitations.

Result of work:

Artificial intelligence plays a crucial role in modern language education by providing interactive, adaptive, and engaging learning experiences. Unlike traditional methods, AI-powered solutions offer real-time feedback and personalized study plans based on learners' progress. The growing use of AI-based chatbots, translation tools, speech recognition technology, and adaptive learning systems has reshaped the way people acquire English language skills.

AI-powered chatbots, such as ChatGPT, provide instant conversational practice and feedback, allowing learners to improve their speaking and writing skills [2]. These tools adapt to users' proficiency levels, making the learning experience more personalized. Chatbots are also capable of detecting grammatical mistakes, suggesting corrections, and helping learners build confidence in their writing abilities. Moreover, conversational AI can simulate real-life discussions, enabling students to practice language skills in various contexts, such as business communication, travel, or everyday conversations.

AI-based applications like Google Translate and Grammarly assist learners by providing instant translations, grammar corrections, and writing suggestions [3]. These tools help in understanding sentence structures, improving writing accuracy, and expanding vocabulary. With the ability to analyze complex sentences, AI-powered tools help users learn advanced grammatical structures and refine their communication skills. Additionally, translation software allows students to compare different language versions of texts, which enhances their ability to understand nuances in meaning.

Furthermore, AI-driven speech recognition systems, such as those found in Duolingo and Rosetta Stone, enable learners to practice pronunciation and receive real-time feedback [3]. This feature is crucial for non-native speakers aiming to achieve fluency. By analyzing speech patterns, AI systems identify pronunciation errors and provide corrective suggestions. Some advanced AI tools also use lip-reading technology to analyze mouth movements, further improving pronunciation training. This technology is particularly beneficial for learners who do not have access to native speakers and need an alternative way to practice their speaking skills.

Additionally, AI-based platforms analyze users' progress and adjust learning materials accordingly [4]. This ensures that learners focus on areas where they need improvement, optimizing their study time. AI systems track a student's weaknesses and recommend exercises that specifically address problem areas. This level of adaptability makes AI-powered learning platforms an effective solution for both beginners and advanced learners. Moreover, AI-powered analytics help teachers monitor students' performance, allowing for a more tailored and efficient teaching approach.

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