

THE TRANSFORMATIVE ROLE OF ARTIFICIAL INTELLIGENCE IN ENHANCING FOREIGN LANGUAGE LEARNING

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Abstract: The article explores the transformative impact of artificial intelligence on foreign language learning. It examines how AI-powered tools and platforms are reshaping traditional methods of language instruction by providing personalized, interactive, and adaptive learning experiences. The study focuses on AI applications such as ChatGPT, Duolingo, and ELSA Speak, analyzing their roles in enhancing learners' speaking, listening, and comprehension skills. Through a literature review, the paper highlights the pedagogical benefits of AI technologies, including instant feedback, customized lesson planning, and increased learner engagement. Special attention is given to the role of natural language processing and speech recognition in creating realistic conversational practice. The article concludes with a discussion of current challenges, ethical considerations, and future prospects for integrating AI into language education.

Keywords: AI, language learning, personalized learning, ChatGPT, Duolingo, ELSA Speak, speech recognition, natural language processing, education technology, adaptive learning.

SUN'IY INTELEKTNING CHET TILLARINI O'RGANISHDA TRANSFORMATSION ROLI

Annotatsiya: Ushbu maqolada sun'iy intellektning chet tillarini o'rganishga ko'rsatgan transformatsion (tubdan o'zgartiruvchi) ta'siri o'rganiladi. Unda sun'iy intellekt asosidagi vositalar va platformalar an'anaviy til o'qitish uslublarini qanday qilib shaxsiylashtirilgan, interaktiv va moslanuvchan o'quv tajribalariga aylantirayotgani ko'rib chiqiladi. Tadqiqot ChatGPT, Duolingo va ELSA Speak kabi AI ilovalari misolida o'quvchilarning gapirish, tinglash va tushunish ko'nikmalarini rivojlantirishdagi o'rnini tahlil qiladi. Adabiyotlar sharhi orqali maqolada sun'iy intellekt texnologiyalarining pedagogik afzalliklari, jumladan, tezkor fikr-mulohaza, moslashtirilgan dars rejalashtirish va o'quvchilar faolligini oshirish imkoniyatlari yoritiladi. Ayniqsa, tabiiy tilni qayta ishlash (NLP) va nutqni tanib olish texnologiyalarining realistik muloqot mashqlarini yaratishdagi o'rniga alohida e'tibor qaratiladi. Maqola AI texnologiyalarini til ta'limiga integratsiya qilishdagi mavjud muammolar, axloqiy jihatlar va kelajak istiqbollari muhokamasi bilan yakunlanadi.

Kalit so'zlar: sun'iy intellekt, til o'rganish, shaxsiylashtirilgan ta'lim, ChatGPT, Duolingo, ELSA Speak, nutqni tanib olish, tabiiy tilni qayta ishlash, ta'lim texnologiyalari, moslanuvchan o'qitish.

ПРЕОБРАЗУЮЩАЯ РОЛЬ ИСКУССТВЕННОГО ИНТЕЛЛЕКТА В УЛУЧШЕНИИ ИЗУЧЕНИЯ ИНОСТРАННЫХ ЯЗЫКОВ

Аннотация: В статье рассматривается преобразующее влияние искусственного интеллекта на изучение иностранных языков. Анализируется, как ИИ-инструменты и платформы меняют традиционные методы преподавания, обеспечивая персонализированный, интерактивный и адаптивный образовательный опыт. Исследование сосредоточено на таких ИИ-приложениях, как ChatGPT, Duolingo и ELSA Speak, с акцентом на их роль в развитии навыков говорения, восприятия на слух и понимания текста у учащихся. Через обзор литературы

выделяются педагогические преимущества ИИ-технологий, включая мгновенную обратную связь, индивидуальное планирование уроков и повышение вовлеченности обучающихся. Особое внимание уделяется использованию обработки естественного языка и технологии распознавания речи для создания реалистичной разговорной практики. В заключение обсуждаются текущие вызовы, этические аспекты и перспективы интеграции ИИ в процесс изучения языков.

Ключевые слова: ИИ, изучение языков, персонализированное обучение, ChatGPT, Duolingo, ELSA Speak, распознавание речи, обработка естественного языка, образовательные технологии, адаптивное обучение.

Artificial Intelligence (AI) is changing education in today's digital age , particularly foreign language study. The traditional ways of learning a language, which consisted by using textbooks or face-to-face interactions in schools or training institutions, are now being transformed by technology based on AI. This paper investigates and analyses how ChatGPT, Duolingo, ELSA Speak, and other AI-powered platforms provide a more personalised language learning environment which is accessible, comfortable, and effective in mediating the learning process.

Real-time feedback, adaptive learning paths, and immersive practice opportunities are the key functions that AI tools offer to both learners and educators. Based on natural language processing and speech recognition technology, these platforms can analyse user input and provide tailor-made exercises. This article employs a comparative approach to examine the practical aspects and limitations of such applications in enhancing second language proficiency.

One of the key advantages of AI in language learning is personalisation. In comparison, it differs from traditional learning approaches and adapts to the learner's level, pace, and preferences. For example, ChatGPT can simulate honest conversations, offering students an opportunity to practice spontaneous dialogue. Similarly, Duolingo's gamified programs help support and motivate learners, while ELSA Speak focuses on improving pronunciation by offering feedback that corrects the learner's mistakes. These tools provide

real-time feedback, adapt to users' needs, and support a range of linguistic skills such as pronunciation, fluency, and vocabulary development (Aljanabi, 2023; Wang & Vasquez, 2021).

The effectiveness of Duolingo lies in its approach, which utilises points and rewards to motivate users effectively. The user-friendly interface and incorporation of gamification elements help maintain engagement and create a sense of accomplishment. Additionally, Duolingo employs spaced repetition techniques and regular updates to enhance memory retention and continued engagement. It also adjusts the difficulty level, providing feedback for error correction. Duolingo offers a learning experience by covering reading, writing, listening, and speaking skills. However, some concerns revolve around learning and the limited depth of language knowledge (A. Kodirov and D. Razikova, 2024). Nevertheless, the high user satisfaction indicates that Duolingo is accessible and has an impact.

ChatGPT improves education by making it easier, more personalised, and more effective for both students and teachers. It helps students with disabilities, translates for non-native speakers, and gives them instant explanations, feedback, and tools to help them study for tests. Teachers appreciate that it can create lesson plans and quizzes and provide feedback from students. It also helps students develop good study habits and ensures that the material is tailored to each person's learning style. However, concerns remain about academic honesty, as students may rely too heavily on ChatGPT for homework, potentially compromising their ability to think critically and be creative. The tool can provide false or biased information, lacks expertise in niche topics, and struggles with context, humour, or multitasking. Most importantly, it cannot replace the emotional intelligence and human connection that teachers bring to the classroom. So, ChatGPT is a helpful tool, but it should not replace traditional teaching methods; instead, it should complement them.

ELSA Speak's complex pronunciation recognition system, which offers real-time feedback on speech, intonation, fluency, and stress in words, is one of its most described features. This simplifies quick improvement in spoken English by enabling students to

recognise and correct their errors immediately. Users value being able to slow down the audio for easier understanding and compare their speech to model pronunciations.

The significant level of personalisation offered by the app is an additional strength. ELSA adapts to the unique goals, skill level, and pace of each learner. This covers a wide range of topics, levels of difficulty, and even specialised material like Business English. Many students emphasise how the app encourages daily learning habits and makes language practice fun and inspiring with its gamified features and user-friendly progress tracking. Furthermore, by simplifying complex pronunciation concepts, visual aids such as mouth position videos and brief explanations further enhance the learning process. Accessibility and adaptability are two more important advantages of the app. Since students can study at any time and from any location, ELSA is particularly helpful for individuals who are busy or lack access to native speakers. Its elegant appearance and easy-to-use interface enhance the overall learning environment.

Even with all of its advantages, ELSA Speak has some disadvantages. Some users express frustration and confusion due to the speech identification system's occasional misidentification of proper pronunciation. These discrepancies can undermine confidence, particularly when students are unclear whether the problem is with their speech or the sensitivity of the software.

Transparency in billing and subscriptions is a more urgent issue. After the free trial period ended, several users complained that they were charged for annual subscriptions without being properly notified. Even though the app has a free version with respectable functionality, the lack of clarity surrounding payment policies has led to unfavorable reviews and mistrust, moreover, some learners express their displeasure with the app's cost, claiming that the premium edition is rather pricey and wishing that more features were available without charge.

Furthermore, artificial intelligence makes it possible to study at any time and, anywhere and conveniently, which makes it as comfortable as possible for students with different schedules or limited access to the traditional teaching method. The integration of

gamification and multimedia elements such as interactive tasks and audio and visual effects further increases the interest and attracts the students' attention.

However, the development and implementation of AI in education also shows negative features. Despite the ability to create the illusion that learners are talking and learning from professionals, AI tools often lack emotional depth, cultural context, and social cues, both in real-time and from the past. Language is not only about learning all the words, filling in your vocabulary, and memorising all the grammar structures; it also includes a conscious understanding of idioms, humour, intonation, and cultural and ethnic nuances. It is difficult for AI to effectively convey all this, as representatives of the traditional learning method do.

Another issue is data privacy, as almost all applications with artificial intelligence ask for permission to use personal data about the user and this user data is used to improve performance. The ethical use of personal data remains an important issue that requires transparency in its use, specifically regarding the origin of the data and its safe handling.

In addition, excessive use of artificial intelligence can lead to dependence on it, which contributes to further problems, such as a decline in interpersonal communication skills. By not being able to have face-to-face conversations with native speakers or with people who know more, students risk developing a passive understanding of the language, which in turn will lead to students becoming closed and not liking contact with other people, or in other words becoming "Introverts," which is bad for interaction in the real world. Ethical concerns about data privacy and user consent in AI platforms, especially regarding premium app subscriptions and automatic billing, have also been raised (Sampson, 2021).

In conclusion, artificial intelligence and many online platforms have changed the learning of foreign and native languages by offering scalable, flexible, and adapted to learner's needs educational tools that can be tailored for every individual. Even if the new technologies are powerful and promising, they should be considered as an addition to traditional teaching methods, not as a substitute for it. A balanced approach combining artificial intelligence learning with authentic communication and cultural immersion is essential for complete language acquisition. This study highlights both the innovations and

limitations of artificial intelligence in education, encouraging the further development of hybrid models combining technology with traditional pedagogical values

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