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LANGUAGE LEARNING OPPORTUNITIES AND CHALLENGES IN THE AGE OF AI

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Abstract. AI in language learning is altering the approach to language acquisition, as it's capable of processing vast amounts of data, making it an essential tool for both learners and teachers. Whether it's through chatbots that put on real-life conversations, personalized lesson plans based on individual learner needs, or advanced speech acknowledgement technology that can identify pronunciation errors, AI is making language learning more accessible and actual than ever before.

Key words: personalized lesson, AI-powered tools, language learning apps, interactive games.

Importance of language learning. Learning languages has become more important in today's world of artificial intelligence. As AI gets better at understanding and using different languages, people also need strong language skills to work with or use AI effectively.

Language learning has many other cognitive benefits besides simply enhancing social interaction. It has been shown to lift memory, delay the onset of dementia in older persons, and increase critical thinking skills. Also, learning a new language can open up new chances for both professional and personal

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development by allowing individuals to communicate with people from different cultures and expand their horizons.

Generally, investing time in language learning is a valuable attempt that can provide both practical benefits in our increasingly globalized world as well as personal enrichment through enhanced cognitive abilities and cultural understanding.

How AI and language learning are related. AI and language learning are closely connected because AI is now used to improve how people learn languages. AI-powered apps can give personalized lessons that adjust to each learner's level, helping them study more effectively and efficiently.

It can also help with translation and interpretation that can quickly and accurately translate text or speech into many languages by analyzing large amounts of data and recognizing voice patterns. This makes global communication easier, allowing people from different language backgrounds to understand each other better.

In conclusion, AI technology is transforming the way we learn languages by providing personalized teaching methods and boosting our ability to communicate across linguistic borders. We may anticipate even more cutting-edge options for language learning in the future as this technology develops.

Usage of AI in language learning. Chatbots represent one of the primary ways artificial intelligence is transforming language learning. They enable learners to engage in real-time conversations while receiving instant feedback on grammar and pronunciation. Since chatbots can adjust their responses according to a learner's proficiency and goals, they provide a highly personalized and interactive learning experience.

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Another major application of AI in language education is speech recognition technology. This allows learners to practice speaking and receive immediate feedback on their pronunciation accuracy. The system can also identify frequent mistakes and suggest specific ways to improve.

AI-powered virtual tutors are becoming increasingly prevalent as well. These intelligent instructors use machine learning algorithms to design individualized lesson plans based on each student's strengths, weaknesses, and progress. Consequently, learners can advance at their own pace while benefiting from tailored support and guidance from an AI-driven tutor.

AI-powered language learning apps. The availability and convenience of language learning have increased with the development of AI-powered language-learning apps. On their article “State of the art and practice in AI in education”, Holmes, W. and Tuomi, I. (2022) stated that with the help of these apps, students can benefit from tailored courses that take into account their unique skills and developmental stages. These apps use machine learning algorithms to analyze students' performance data and tailor classes to their needs.

Learning a new language is also exciting because of the interactive and amusing features of these language-learning applications. A stirring approach for language learners to communicate with a new language is through AI-powered language learning apps, which range from chatbots that simulate real-life conversations to virtual reality experiences that submerge users in foreign cultures.

Despite some limitations, such as the lack of human interaction or cultural nuances, AI-powered language learning apps have proven effective in improving learners' skills. Many users report substantial improvements in their pronunciation, vocabulary, and comprehension after using these types of

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applications for just a few weeks. As technology continues to evolve, so will the capabilities of these innovative tools, only further enhancing the ability for anyone interested in picking up another language to have easy access toward achieving fluency!

Personalized language learning with AI. AI-powered personalized language learning offers students a more adaptive and efficient educational experience than ever before. With advanced algorithms, AI can assess a learner's strengths and weaknesses, then tailor lessons to address specific needs. Секерова А.И. (2025) indicates that this approach helps students focus on improving their weaker skills while continuing to develop their stronger ones. Additionally, AI can provide instant corrections for grammar and pronunciation, allowing learners to make real-time improvements.

A major advantage of AI in language learning is its accessibility. According to surveys made by Harry, A. (2023) students no longer need to depend solely on traditional classrooms or private tutors for individualized guidance. Instead, they can access high-quality, personalized instruction anytime and anywhere with an internet connection. Furthermore, AI-based learning platforms operate around the clock, enabling learners to study at their own pace and on their own schedule.

Moreover, individualized language learning enabled by AI has the potential to change language learning by making it more pleasant. Learners can immerse themselves in realistic circumstances that push them to employ their new language abilities in actual situations by using interactive features like chatbots and virtual reality simulations. As a result, there is an improvement in retention as well as an increase in motivation and self-assurance when speaking a foreign language.

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Benefits of Using AI in Language Learning. Personalized learning is one of the key advantages of employing AI in language learning. Language learners can now receive advice and criticism to their skills and shortcomings thanks to artificial intelligence. For instance, AI-driven language learning software may monitor a student's progress and modify the exercises' level of difficulty as necessary.

Another advantage of incorporating AI into language learning is its ability to provide immediate feedback. Traditional methods usually require learners to wait for a teacher to check their work before receiving feedback. However, with AI, learners receive instant feedback on their answers, enabling them to correct mistakes immediately.

Finally, using AI in language learning allows for greater efficiency and flexibility. Learners can access these programs at anytime from anywhere with an internet connection, making it easier for busy individuals to fit language practice into their daily routines. Additionally, AI can analyze data on how much time learners spend studying each topic and adjust lesson plans accordingly to optimize their effectiveness.

Effective and efficient language learning. Artificial intelligence has significantly enhanced both the efficiency and effectiveness of language learning. AI-powered language learning applications are now widely available, offering personalized learning experiences that adapt to each individual's needs and preferences. Through machine learning, these platforms continuously assess a learner's progress and adjust lessons accordingly to improve knowledge retention and skill development.

A notable example is Duolingo, which combines gamification techniques with AI-driven algorithms to create an engaging and interactive learning environment.

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Users can practice speaking, listening, reading, and writing skills at their own pace in more than 30 languages. Another example, Babbel, utilizes AI to emphasize practical communication by teaching conversational language through real-world contexts and examples. AI technology has also paved the way for more immersive language learning experiences. Virtual reality (VR) programs like MondlyVR allow learners to practice their language skills in simulated real-world environments. By experiencing everyday situations in a foreign language, like ordering food at a restaurant or asking for directions, learners can gain confidence in using the language they're studying.

Ultimately, AI-assisted language learning offers many advantages over traditional classroom methods. With personalized feedback and immersive experiences that simulate real-life scenarios, learners can quickly improve their communication skills in any foreign tongue of their choosing!

References

- Harry, A. (2023) ‘Role of AI in education’, *Interdisciplinary Journal of Humanity (INJURITY)*, 2(3), pp. 260–268. <https://doi.org/10.58631/injury.v2i3.52>
- Holmes, W. and Tuomi, I. (2022) ‘State of the art and practice in AI in education’, *European Journal of Education*, 57(4), pp. 542–570. <https://doi.org/10.1111/ejed.12533>
- Kadyrkhanbayeva, D.B.E. (n.d.) *Intelligent educational systems of the present and future*. Available at: <https://proceedings.uwed.uz/20.%20Kadyrkhanbayeva%20Dilnoza.pdf> (Accessed: day Month year).

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Oke, O.A., Jamil, D.I. and Cavus, N. (2023) ‘The impact of artificial intelligence in foreign language learning using learning management systems: A systematic literature review’, *Cihan University-Erbil Repository*. Available at: https://eprints.cihanuniversity.edu.iq/id/eprint/3772/1/Article_ITLT_30-06-2023.pdf (Accessed: day Month year).

Секерова, А.И. (2025) Использование веб-квест технология для повышения мотивации студентов при обучении английскому языку. Zenodo. <https://doi.org/10.5281/zenodo.14621032>