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AI-POWERED PERSONALIZATION: REVOLUTIONIZING FOREIGN LANGUAGE LEARNING IN PEDAGOGICAL SCIENCE

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Робота аналізує трансформаційну роль штучного інтелекту в персоналізованому підході до вивчення мов. Уточнено, як технології ШІ, такі як адаптивні навчальні платформи, додатки NLP та інтелектуальні навчальні системи відповідають індивідуальним потребам студентів, оптимізуючи процес вивчення мови. Окрім переваг, визначено виклики, пов'язані з конфіденційністю, етикою та рівним доступом.

Ключові слова: *персоналізація, штучний інтелект, вивчення іноземних мов, персоналізоване навчання, засоби навчання.*

The article presents the analysis of the transformative role of AI in personalized language learning. It has been specified how AI technologies, such as adaptive learning platforms, NLP applications, and intelligent tutoring systems meet individual learners' needs, optimizing the language acquisition process. Besides the benefits, the challenges related to privacy, ethics, and equitable access are determined.

Key words: *personalization, artificial intelligence, foreign language education, personalized learning, learning tools.*

In recent years, the integration of artificial intelligence (AI) in pedagogical science has opened alternative paths for revolutionizing educational practices. As the demand for effective language education grows globally, the need for tailored learning experiences becomes increasingly evident. In today's diverse and global educational environment, being fluent in foreign languages is no longer restricted by traditional limitations. It has become an essential skill for personal growth, academic success, and professional development [2, p. 105].

The work aims to explore the role of AI-powered personalization in the context of foreign language learning, shedding light on its potential to transform traditional pedagogical approaches. Thus, the study investigates the impact of AI on personalizing foreign language learning, examining its applications, effectiveness, and challenges.

In the field of education, artificial intelligence has become a game-changing force, bringing forth numerous innovative tools and methods for language learning. Specifically, the integration of AI technologies into foreign language education is revolutionizing the approaches educators take in teaching languages [1, p. 22]. Artificial intelligence, with its ability to process vast amounts of data and adapt to individual learning styles, plays a pivotal role in personalized learning. In the realm of foreign language education, where learners often have diverse needs and proficiency levels, AI provides a dynamic solution. Intelligent tutoring systems utilize machine learning algorithms to tailor lessons according to learners' progress, adapting the difficulty level based on individual performance. This adaptability fosters a personalized learning environment, catering to the unique requirements of each student.

Let us consider a few examples of how artificial intelligence can be used in practice in the context of personalizing foreign language learning.

Adaptive Learning Platforms. AI-driven adaptive learning platforms analyze

learners' strengths and weaknesses, adjusting the curriculum accordingly. Platforms like Duolingo use AI to create personalized lesson plans, focusing on areas where a learner requires more practice. This ensures that learners receive targeted instruction, optimizing their language acquisition process.

Natural Language Processing (NLP) Applications. NLP applications, such as chatbots and language translation tools, contribute to personalized language learning experiences. For instance, chatbots and virtual language tutors provide real-time language practice, engaging learners in meaningful conversations. They have the potential to provide personalized language practice, enhancing students' conversational abilities [3, p. 97]. Language translation tools powered by AI aid in understanding context and nuances facilitate a deeper comprehension of foreign languages.

Intelligent Tutoring Systems. AI-based intelligent tutoring systems, like Rosetta Stone [4], offer personalized feedback and adaptive exercises. These systems track learners' progress and adjust the difficulty of tasks to maintain an optimal learning curve. Through continuous assessment, learners receive tailored guidance, fostering a more efficient language learning journey.

While AI holds tremendous potential for personalized language learning, several challenges need consideration. Privacy concerns related to data collection and the ethical use of AI in education must be addressed. Additionally, the digital divide may limit access to AI-driven language learning tools for certain demographics, intensifying educational inequalities. Striking a balance between technology and human interaction remains crucial to ensure that AI enhances, rather than replaces, the role of educators in language instruction.

In conclusion, the integration of AI in pedagogical science, particularly in the realm of foreign language learning, marks a paradigm shift in education. AI-powered personalization has demonstrated its effectiveness through adaptive learning platforms, NLP applications, and intelligent tutoring systems. These technologies empower learners by tailoring educational experiences to their individual needs, fostering a more engaging and efficient language learning process.

As we navigate the future of education, it is imperative to address challenges associated with the ethical use of AI, data privacy, and equitable access. Striking a harmonious balance between AI-driven tools and human instruction will be key to unlocking the full potential of personalized language learning. There is sure to be a lot of discussion about the transformative role of AI in education. We have just tried to lay the groundwork for further exploration and refinement of AI-powered language learning methodologies.

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ПСИХОЛОГІЧНІ / ПСИХОПЕДАГОГІЧНІ ВПРАВИ ДЛЯ АНАЛІЗУ УСВІДОМЛЕННЯ ОСОБИСТОЇ ВІДПОВІДАЛЬНОСТІ ЗА ПЕРЕБІГ КОНФЛІКТУ

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