ARTIFICIAL INTELLIGENCE – A TOOL FOR MODERNIZING EDUCATION

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Abstract. *This article discusses the role and effectiveness of artificial intelligence (AI) in foreign language learning. It explains how chatbots, automated translation systems, and AI-based interactive learning platforms help students learn languages more easily. The benefits and limitations of AI in education are also analyzed.*

Аннотация. *В данной статье рассматривается роль и эффективность искусственного интеллекта (ИИ) в изучении иностранных языков. Объясняется, как чат-боты, автоматизированные системы перевода и интерактивные обучающие платформы на основе ИИ помогают студентам легче осваивать языки. Также анализируются преимущества и ограничения ИИ в образовании.*

Annotatsiya. *Ushbu maqolada sun'iy intellektning (SI) chet tillarini o'rganishdagi roli va samaradorligi muhokama qilinadi. Chat-botlar, avtomatlashtirilgan tarjima tizimlari va sun'iy intellektga asoslangan interaktiv o'quv platformalarining talabalar uchun tillarni osonroq o'rganishga qanday yordam berishi tushuntiriladi. Shuningdek, ta'limda sun'iy intellektning afzalliklari va cheklovlari tahlil qilinadi.*

Keywords: *artificial intelligence, foreign language learning, chatbot technology, automated translation, interactive learning, Duolingo AI, Google Translate, DeepL, personalized learning.*

Ключевые слова: *искусственный интеллект, изучение иностранных языков, технология чат-ботов, автоматизированный перевод, интерактивное обучение, Duolingo AI, Google Translate, DeepL, персонализированное обучение.*

Kalit so'zlar: *sun'iy intellekt, chet tillarini o'rganish, chat-bot texnologiyasi, avtomatlashtirilgan tarjima, interaktiv o'rganish, Duolingo AI, Google Translate, DeepL, shaxsiylashtirilgan ta'lim.*

Introduction

In the 21st century, education is changing rapidly due to technological advancements.

Artificial Intelligence (AI) has become an important part of education, making learning more flexible, effective, and personalized. In foreign language learning, chatbot technology, automated translation systems, and AI-based learning platforms are playing a big role.

AI personalizes the learning process, adapts lessons to the needs of students, and improves learning efficiency. Advanced technologies like Duolingo AI, Memrise AI, Mondly Chatbot, Google Translate, and DeepL help students learn languages faster and more effectively.

This article explains how AI helps students learn languages, the role of chatbots in education, and the advantages and limitations of automated translation systems.

The Role of Artificial Intelligence in Language Learning

From one perspective, AI has transformed language learning by allowing students to study independently and progress at their own pace. It offers personalized learning experiences, ensuring that each student receives exercises tailored to their skill level.

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AI-powered platforms, such as Duolingo AI, analyze students' mistakes and provide customized lessons, helping them strengthen weak areas. Additionally, Memrise AI enhances vocabulary through interactive videos and voice recognition, making the learning process more engaging. Moreover, AI tools like Mondly Chatbot facilitate real-time conversations, allowing learners to practice speaking and correct grammar mistakes instantly. AI also improves pronunciation by identifying errors and offering immediate corrections, helping students refine their speaking skills. Furthermore, AI detects grammar and spelling mistakes in real time, ensuring accuracy in writing. Adaptive learning technology further personalizes education by adjusting lesson difficulty according to the student's progress, making learning more efficient and motivating.

From another perspective, AI cannot fully replace traditional teachers because it lacks human intuition and emotional understanding. While AI provides automated feedback, it may not always explain complex grammar rules in a way that all students can understand.

Furthermore, AI-based platforms struggle with nuances in pronunciation, as they may not recognize regional accents or informal speech patterns. Additionally, AI systems rely on pre-programmed algorithms, which can sometimes lead to repetitive and predictable exercises rather than dynamic and creative learning. Unlike human instructors, AI cannot engage in meaningful discussions or answer open-ended questions, limiting deep learning experiences. Another drawback is that AI-based platforms require a stable internet connection, which may not always be accessible to all learners. Lastly, excessive dependence on AI can reduce critical thinking skills, as students may rely too much on automated corrections instead of actively analyzing and understanding language rules. Despite these limitations, AI remains a valuable tool in language education when used alongside human instruction.[1]

Chatbot Technology in Education

On the one hand, chatbots help students practice real-life conversations by providing interactive communication in different languages. They allow students to chat with AI and improve their writing and speaking skills in a stress-free environment. Moreover, AI chatbots give instant feedback, helping learners correct grammar mistakes and understand sentence structures more easily. In addition, these tools make learning more engaging by using games, quizzes, and challenges that motivate students to practice regularly. Furthermore, chatbots are available anytime, allowing students to learn at their own pace without waiting for a teacher.

They also adjust the difficulty level based on the student's progress, making learning more personalized and effective. Lastly, AI chatbots help build confidence by simulating real conversations, allowing learners to practice without fear of making mistakes.

On the other hand, chatbots cannot fully replace human teachers because they lack emotions and deep understanding of language context. In contrast to human instructors, they may not always provide correct answers or explain complex grammar rules clearly, leading to misunderstandings. Additionally, some chatbots struggle with idioms, slang, and cultural expressions, making communication less natural. Moreover, AI chatbots rely on pre-programmed responses, which can sometimes feel repetitive and limited. Another disadvantage is that they require an internet connection, which may not always be available for all students.

Similarly, chatbots do not understand human emotions or social cues, making conversations feel artificial. Despite these limitations, while chatbots are useful for practice, they still need human supervision to ensure students receive accurate and meaningful learning experiences.[2]

AI-Based Automated Translation in Education

AI translation helps people understand foreign languages quickly and easily. It allows users to translate text in just a few seconds, saving time and effort. Many AI tools, like Google Translate, DeepL, and Microsoft Translator, support over 100 languages, making global communication easier. These tools help students, travelers, and professionals by providing quick translations for different purposes. AI translation is useful for reading books, articles, and websites in other languages. It helps students learn new words and understand grammar rules more easily. Some advanced systems, like DeepL, try to understand the context of a sentence, making the translation more natural and accurate. AI also allows people to communicate with international friends and colleagues, helping in business and education.

However, AI translation is not always perfect and can sometimes make mistakes. It struggles with long sentences, idioms, and cultural expressions, often leading to wrong meanings. Machine translation may not always understand emotions, humor, or informal language, making some translations unnatural. AI does not have human intuition, so it cannot always choose the best words for a sentence. This can cause problems in official documents, business contracts, and academic writing. Many professionals still prefer human translators because they provide better accuracy and quality. AI can be a helpful tool, but it is not a perfect replacement for human expertise. [3]

Conclusion

Artificial Intelligence has made foreign language learning easier and more effective.

Chatbots and automated translation systems help students practice real-life conversations and expand their vocabulary. As AI continues to improve, it will offer even more personalized and adaptive learning experiences in the future.

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