IMPLEMENTING AI TECHNOLOGY IN TEACHING READING

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Annotatsiya. Ushbu maqola til o‘rganish jarayonida o‘qish ko‘nikmalarini rivojlantirishda sun’iy intellekt (SI) ning rolini o‘rganadi. So‘nggi yillarda SI ta’lim sohasidagi innovatsiyalarning muhim qismiga aylanib, o‘qituvchilar va o‘quvchilarni qo‘llab-quvvatlashning yangi usullarini taklif etmoqda. Tadqiqot SI asosidagi vositalarning ta’limni individuallashtirish, o‘quvchilarning motivatsiyasini oshirish hamda o‘qib tushunish ko‘nikmalarini yaxshilashdagi imkoniyatlariga qaratilgan. Shuningdek, maqolada o‘qish darslariga SI ni joriy etishning amaliy usullari ko‘rib chiqiladi va uning zamonaviy ta’lim muhitidagi samaradorligi tahlil qilinadi. Natijalar SI yordamida moslashuvchan, interaktiv va o‘quvchiga yo‘naltirilgan muhitni yaratish mumkinligini, bu esa o‘qish samaradorligini oshirishga xizmat qilishini ko‘rsatadi.

Kalit so‘zlar: sun’iy intellekt, o‘qish ta’limi, til o‘rganish, moslashuvchan tizimlar, raqamli ta’lim, o‘quvchi faolligi

Abstract. This paper investigates the role of Artificial Intelligence (AI) in the development of reading skills within the context of language learning. In recent years, AI has become an essential part of educational innovation, offering new ways to support both teachers and learners. The study focuses on how AI-based tools can individualize instruction, increase student motivation, and enhance reading comprehension. It also reviews practical methods of integrating AI into reading lessons and discusses its effectiveness in modern educational settings. The findings indicate that AI has strong potential to create flexible, interactive, and learner-centered environments that improve overall reading performance.

Keywords: artificial intelligence, reading instruction, language learning, adaptive systems, digital education, learner engagement

Аннотация. Данная статья рассматривает роль искусственного интеллекта (ИИ) в развитии навыков чтения в процессе изучения языка. В последние годы ИИ стал важной частью образовательных инноваций, предлагая новые способы поддержки как преподавателей, так и обучающихся. Исследование сосредоточено на том, как инструменты на основе ИИ могут индивидуализировать обучение, повышать мотивацию учащихся и улучшать понимание прочитанного. Также в работе рассматриваются практические методы интеграции ИИ в уроки чтения и анализируется их эффективность в современных образовательных условиях. Полученные результаты показывают, что ИИ обладает значительным потенциалом для создания гибкой, интерактивной и ориентированной на учащегося образовательной среды, способствующей повышению уровня чтения.

Ключевые слова: искусственный интеллект, обучение чтению, изучение языка, адаптивные системы, цифровое образование, вовлечённость учащихся

Introduction

Reading is widely recognized as one of the most important skills in language acquisition. It enables learners to access information, broaden their vocabulary, and develop critical

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thinking abilities. Through reading, students are exposed to authentic language use, which supports their overall communicative competence.

In traditional classrooms, reading instruction has typically depended on printed textbooks, teacher explanations, and uniform materials for all learners. While these approaches can be effective, they often do not address individual differences in learners' abilities, interests, and learning pace. As a result, some students may struggle to keep up, while others may not feel sufficiently challenged.

With the rapid growth of digital technologies, particularly Artificial Intelligence (AI), new opportunities have emerged to improve the teaching and learning of reading. AI allows educators to move beyond one-size-fits-all instruction and adopt more personalized approaches. It can analyze learner behavior, track progress over time, and provide immediate, targeted feedback.

This paper aims to explore how AI can be effectively used in teaching reading skills. It examines different AI-based methods and considers their role in supporting both teachers and students throughout the learning process.

Methods of Using AI in Teaching Reading

One of the most important advantages of AI in education is its ability to adapt to individual learners. Several methods demonstrate how AI can be applied in reading instruction.

AI-powered reading platforms are designed to adjust the level of difficulty according to students' abilities. By analyzing performance data such as reading speed, comprehension accuracy, and vocabulary knowledge, these systems provide texts that are appropriate for each learner. This personalized approach helps students build confidence and maintain motivation, as they are neither overwhelmed by difficult materials nor bored by overly simple ones Another useful application of AI is text simplification. Complex reading materials can be automatically modified to suit learners at different proficiency levels. AI can replace difficult words with simpler alternatives and rest ructure sentences to make them easier to understand. This is particularly beneficial for learners who are still developing their language skills, as it allows them to engage with meaningful content without frustration.

AI-driven tutoring systems act as virtual assistants that guide learners through reading activities. They can ask comprehension questions, provide explanations, and offer hints when students encounter difficulties. These systems create a more interactive learning experience and simulate individualized instruction, which is especially valuable outside the classroom. Some AI tools combine reading with speech recognition technology. Students can read texts aloud, and the system analyzes their pronunciation, fluency, and accuracy. This integrated approach not only improves reading skills but also supports speaking development, making the learning process more comprehensive.

AI also plays a significant role in assessment. It can automatically evaluate students' understanding of texts through quizzes, summaries, and other tasks. Immediate feedback allows learners to recognize their mistakes and make improvements without delay. For teachers, this reduces the workload associated with grading and allows more time for lesson planning and student support.

AI in the Learning Process

AI can be effectively incorporated into all stages of a reading lesson. During the **pre-reading stage**, AI tools can introduce key vocabulary, provide background information, and generate guiding questions to prepare students for the text.

In the **while-reading stage**, learners interact with the text using features such as instant definitions, annotations, and comprehension prompts. These tools help maintain engagement and support deeper understanding.

In the **post-reading stage**, AI systems evaluate comprehension and suggest additional exercises tailored to the learner’s performance. This ensures continuous improvement and reinforces learning outcomes.

Furthermore, AI supports differentiated instruction by addressing the unique needs of each student. It also encourages learner autonomy, as students can practice reading independently at their own pace using digital tools.

Conclusion

In conclusion, the integration of Artificial Intelligence into reading instruction offers numerous advantages for language education. It allows for greater personalization, improves efficiency, and enhances student engagement. AI tools provide valuable support for both teachers and learners by making the learning process more flexible and responsive to individual needs.

However, it is important to emphasize that AI should not replace teachers. Human guidance, interaction, and professional expertise remain essential components of effective education. The most successful approach is to combine technological innovation with traditional teaching practices.

Overall, AI has the potential to significantly transform the way reading is taught and learned. As technology continues to evolve, further research will be necessary to explore its long-term impact and to ensure its effective and ethical use in education.

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