



THE ROLE OF ARTIFICIAL INTELLIGENCE IN IMPROVING FOREIGN LANGUAGE LEARNING FOR MEDICAL STUDENTS

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DOI: <https://doi.org/10.5281/zenodo.19664535>

ABSTRACT

Artificial intelligence is increasingly influencing modern education, including the way foreign languages are taught and learned. For medical students, the ability to communicate in an international language such as English is essential for accessing scientific literature, participating in global research, and interacting with patients from diverse backgrounds. This paper explores how artificial intelligence tools can support and improve foreign language learning among medical students. The study discusses various AI-based platforms, translation tools, and adaptive learning systems that assist students in developing communication skills more effectively. The article also highlights the benefits and challenges of integrating artificial intelligence into language education within medical universities.

Keywords: Artificial Intelligence, Language Learning, Medical Students, Digital Education, Translation Technologies, Educational Innovation, Adaptive Learning, Medical Education.

INTRODUCTION

In the modern world, digital technologies have significantly transformed many aspects of education. One of the most influential developments in recent years is artificial intelligence. AI technologies are increasingly used in different academic fields, including language education and translation studies. For medical students, learning a foreign language is especially important because most scientific medical literature and international research communication take place in English.

Traditional methods of language learning sometimes fail to meet the needs of modern students. Many learners require interactive, flexible, and personalized learning approaches. Artificial intelligence technologies provide new opportunities to support language learning through adaptive platforms, translation tools, and intelligent feedback systems.

Artificial Intelligence in Modern Education

Artificial intelligence refers to computer systems capable of performing tasks that normally require human intelligence, such as learning, reasoning, and decision-making. In education, AI-based systems can analyze students' progress, identify weaknesses, and provide personalized recommendations for improvement.

Many modern educational platforms use AI algorithms to adapt learning materials according to the individual needs of students. This approach allows learners to study at their own pace and receive support in areas where they experience difficulty.

Importance of Foreign Language Skills for Medical Students

Medical education is strongly connected with international research and global cooperation. A large amount of medical literature is published in English, which makes language proficiency essential for medical students. Understanding scientific articles, clinical guidelines, and research publications requires strong reading and comprehension skills in foreign languages.

In addition, healthcare professionals often interact with patients from different cultural and linguistic backgrounds. Effective communication helps doctors understand patients' symptoms better and build trust in the doctor-patient relationship.

AI Tools Supporting Language Learning

Artificial intelligence offers several tools that can support language learning. Machine translation systems allow students to understand complex texts written in foreign languages. These systems help learners grasp the general meaning of scientific materials and medical resources.

AI-based language learning platforms also provide personalized exercises, grammar corrections, and pronunciation feedback. Speech recognition technologies can analyze a student's pronunciation and provide suggestions for improvement, helping learners develop confidence in speaking.

Advantages and Challenges of AI in Language Education

The integration of artificial intelligence into language education offers many advantages. Students can practice language skills anytime using digital tools. AI-based systems make learning more interactive and engaging, which can increase students' motivation.

However, there are also certain challenges. Automated translation tools may sometimes produce inaccurate results, especially in specialized fields like medicine. Therefore, students should use AI technologies as supportive tools while continuing to develop their own critical thinking and language abilities.

CONCLUSION

Artificial intelligence is becoming an important component of modern education. For medical students, AI technologies provide valuable support in developing foreign language skills needed for academic and professional success. When combined with traditional teaching methods, AI-based tools can significantly improve the effectiveness of language learning and help future medical professionals participate more actively in the global medical community.

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