

## THE ESSENCE OF ARTIFICIAL INTELLIGENCE TECHNOLOGIES IN LANGUAGE LEARNING

Ruzimurodova Rukhsat Normurod kizi

Navoi State University

E-mail: [rrukhsat@mail.ru](mailto:rrukhsat@mail.ru)

**Abstract:** This article discusses the role of artificial intelligence (AI) technologies in the process of learning foreign languages, their advantages and pedagogical significance in the modern education system. Learning platforms based on AI make the learning process person-oriented, flexible and interactive. The study shows that learning environments created using AI are more effective than traditional methods in developing students' pronunciation, grammatical accuracy, vocabulary and real communicative competences.

**Keywords:** artificial intelligence, foreign language teaching, digital education, speech recognition system, adaptive pedagogy, interactive learning.

### Introduction

The process of digital transformation is having a significant impact on all spheres of society, in particular the education system. Today, teaching foreign languages is not based only on textbooks, grammar exercises and traditional lectures, but also requires the widespread use of modern information and communication technologies. One of these is artificial intelligence (AI) technologies. AI allows you to rethink the learning process between the student and the teacher, making classes flexible, individual and dynamic. AI monitors the activity of the learner, analyzes the results and adapts the educational material to the level of knowledge of the student. This process is called the "adaptive learning" model.

### Main part

#### 1. Technological foundations of artificial intelligence in language learning

Artificial intelligence is mainly used in the process of language teaching through the following technologies:

- Machine learning (Machine Learning) - the system learns based on experience;
- Natural Language Processing (NLP) – provides grammatical analysis and text understanding;
- Speech Recognition – automatically assesses pronunciation;
- Chatbot systems – models a real communication environment.

#### 2. Adaptive learning model and individual approach

In the traditional lesson process, one teacher cannot provide an individual approach to all students. Artificial intelligence analyzes the student's mistakes, determines the learning speed and adapts the material to the individual.

3. Development of pronunciation and listening comprehension skills

Correction of phonetics and accent is important in language learning. ELSA Speak and other SI systems evaluate pronunciation in real time, provide the learner with correct examples and repetition exercises.

4. Increasing motivation through gamification

SI-based learning platforms make the learning process interesting by using game elements. This increases the student's intrinsic motivation to learn.

5. Virtual conversationalist and real-life communication environment

Systems such as ChatGPT provide the student with the opportunity to talk on various topics. This helps the student develop communication skills even when the language environment is lacking.

### Conclusion

Artificial intelligence is taking the foreign language teaching system to a new level. It personalizes the learning process, builds communicative competencies, and supports independent learning.

### REFERENCES

1. Luckin R., Holmes W., Griffiths M., & Forcier L. B. (2016). *Intelligence Unleashed: An Argument for AI in Education*. Pearson.
2. Li, X., & Wang, Y. (2020). Artificial Intelligence-Assisted Language Learning. *Journal of Educational Technology*, 45(2), 87–102.
3. Godwin-Jones, R. (2019). Emerging Technologies: AI Tools in Language Learning. *Language Learning & Technology*, 23(3), 4–14.