ENHANCING STUDENTS' ENGLISH SPEAKING SKILLS THROUGH ARTIFICIAL INTELLIGENCE TECHNOLOGIES

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Annotatsiya: Maqolada sun'iy intellekt texnologiyalari orqali talabalarning ingliz tilida nutqiy ko'nikmalarini rivojlantirishga ta'sirining sifat va miqdoriy usullari, nutqiy faoliyati, talaffuzlarining kommunikativ kompetensiyasi masalalari izchil ketma-ketlik prinsipi asosida yoritib berilgan.

Kalit so'zlar: Sun'iy intellekt, ingliz tili ta'limi, nutqiy ko'nikmalar, raqamli ta'lim texnologiyalari, kommunikativ kompetensiya, oliy ta'lim.

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Abstract: This article examines the impact of artificial intelligence technologies on the development of students' English speaking skills. The study analyzes the effectiveness of AI-based tools through both qualitative and quantitative research methods. Particular attention is given to students' speech activity, pronunciation accuracy, and the development of their communicative competence. These aspects are explored in a systematic and coherent manner based on the principle of sequential analysis.

Keywords: Artificial Intelligence, English Language Learning, Speaking Skills Development, Educational Technology, AI-based Learning, Digital Education, Higher

Education.

РАЗВИТИЕ УСТНЫХ НАВЫКОВ АНГЛИЙСКОЙ РЕЧИ У СТУДЕНТОВ С ИСПОЛЬЗОВАНИЕМ ТЕХНОЛОГИЙ ИСКУССТВЕННОГО ИНТЕЛЛЕКТА

Аннотация: В статье рассматривается влияние технологий искусственного интеллекта на развитие устных навыков английской речи у студентов. В исследовании анализируется эффективность использования технологий искусственного интеллекта с применением качественных и количественных методов. Особое внимание уделяется речевой активности студентов, точности их произношения и развитию коммуникативной компетенции. Указанные аспекты последовательно и системно раскрываются на основе принципа логической последовательности.

Ключевые слова: искусственный интеллект, обучение английскому языку, развитие речевых навыков, образовательные технологии, коммуникативная компетенция, высшее образование.

INTRODUCTION

The rapid development of modern information and communication technologies necessitates the introduction of innovative approaches at all stages of the educational system. In particular, the advancement of artificial intelligence technologies has emerged as an important factor in organizing the educational process, improving teaching methods, and increasing the effectiveness of learning activities. Today, artificial intelligence-based technologies are widely used not only in industry and the economy but also in the education system, contributing significantly to improving the quality of teaching and learning.

In the process of teaching foreign languages, especially English, the use of modern pedagogical technologies and digital tools plays an important role. Developing students' ability to communicate fluently in English is considered one of the most important objectives of language education. However, practical experience shows that there are several challenges in the development of students' speaking skills, including the lack of a communicative environment, difficulties related to pronunciation, and the predominance of traditional teaching methods in the educational process.

Artificial intelligence technologies can serve as an effective tool in addressing these challenges. AI-based educational platforms provide students with opportunities to learn through individualized approaches, practice in interactive environments, and independently develop their speaking skills. In addition, artificial intelligence technologies enable students to receive immediate feedback, improve their pronunciation, and enhance their communicative competence.

In recent years, the application of artificial intelligence technologies in education has been extensively studied by both international and local researchers. Their studies emphasize that AI technologies play a significant role in improving the quality of education, analyzing students' knowledge levels, and developing individualized learning strategies. In particular, the use of AI-based educational tools in English language teaching contributes to the development of students' speaking skills, the formation of communicative competence, and the effective organization of the language learning process.

The main objective of this study is to analyze the effectiveness of using artificial intelligence technologies in developing students' English speaking skills in higher education institutions.

RELEVANCE OF THE RESEARCH TOPIC

In the modern education system, the rapid development of digital technologies is shaping new approaches to organizing the educational process. In particular, the integration of artificial intelligence technologies into the education system plays a significant role in personalizing the learning process, analyzing students' knowledge levels, and improving educational effectiveness [1]. Researchers emphasize that AI-based technologies enable the creation of adaptive learning environments, optimize students' learning processes, and make the educational process more interactive [2].

In the process of teaching foreign languages, particularly English, the development of speaking skills is of great importance. However, this process often remains limited by traditional teaching methods. Numerous studies indicate that the use of modern technologies is essential for enhancing students' speaking activity, pronunciation skills, and communicative competence in learning English [3]. AI-based educational platforms provide students with opportunities to practice in interactive environments, receive immediate feedback, and independently develop their speaking abilities [4]. Recent scientific studies indicate that the integration of artificial intelligence technologies into the educational process contributes significantly to improving the effectiveness of learning. In particular, AI tools are recognized as effective instruments for increasing students' motivation to learn languages, developing their communicative competence, and fostering their ability to communicate fluently in English [5]. Therefore, the use of artificial intelligence technologies in developing students' English speaking skills is considered one of the most актуal scientific issues in modern language education.

PROBLEM STATEMENT

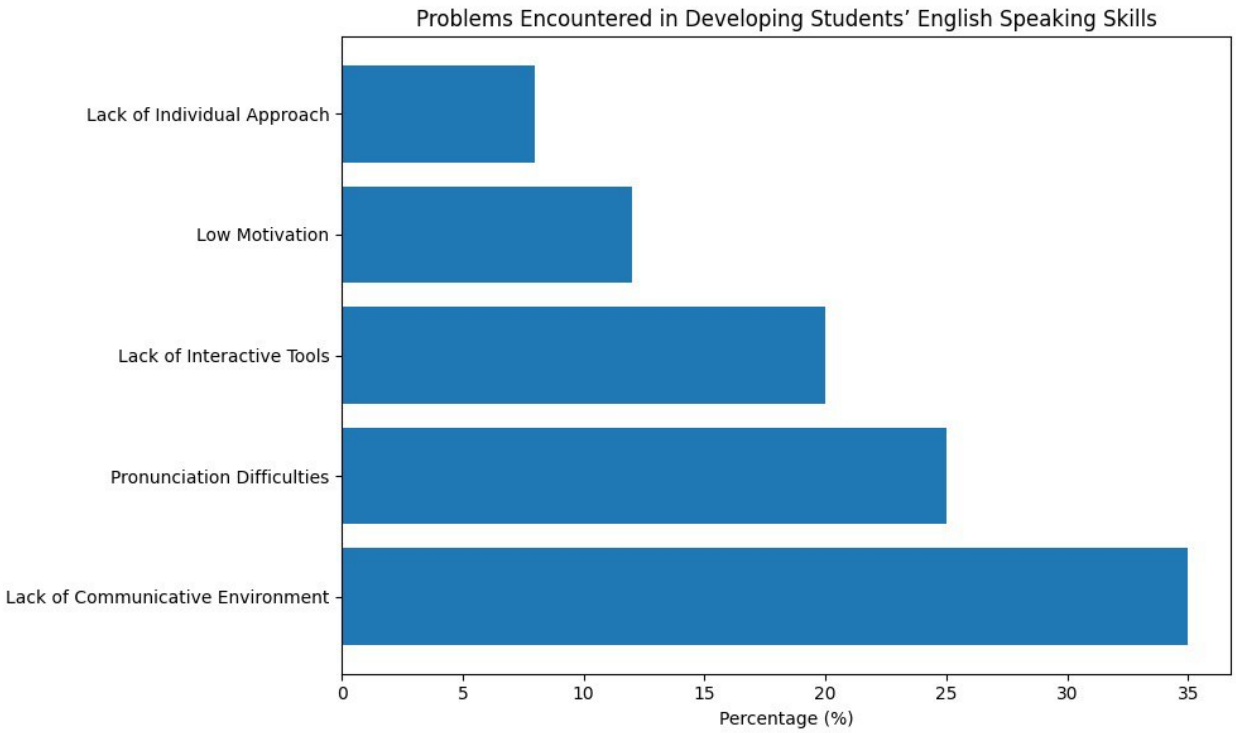
Improving the process of teaching English in the modern education system is considered one of the important pedagogical tasks. In particular, the development of students' English speaking skills is one of the main objectives of foreign language education and plays a significant role in the formation of their communicative competence. However, practical experience shows that in many higher education institutions the process of teaching English still largely relies on traditional teaching methods. As a result, although students acquire grammatical knowledge, they often experience difficulties in applying this knowledge in practical communication.

During the process of developing students' ability to communicate freely in English, several factors act as barriers, including the lack of a communicative environment, insufficient use of interactive learning tools, and the limited application of individualized teaching approaches. Therefore, the use of modern digital technologies, particularly artificial intelligence technologies, is considered one of the pressing issues in English language teaching.

Artificial intelligence technologies enable the personalization of the learning process, the analysis of students' knowledge levels, and the creation of interactive learning environments. In particular, AI-based platforms can serve as effective tools for improving students' pronunciation skills, increasing their speech activity, and developing their ability to communicate fluently in English. Nevertheless, there remains a need for a scientifically grounded study of the pedagogical potential and effectiveness of using artificial intelligence technologies in developing students' English speaking skills.

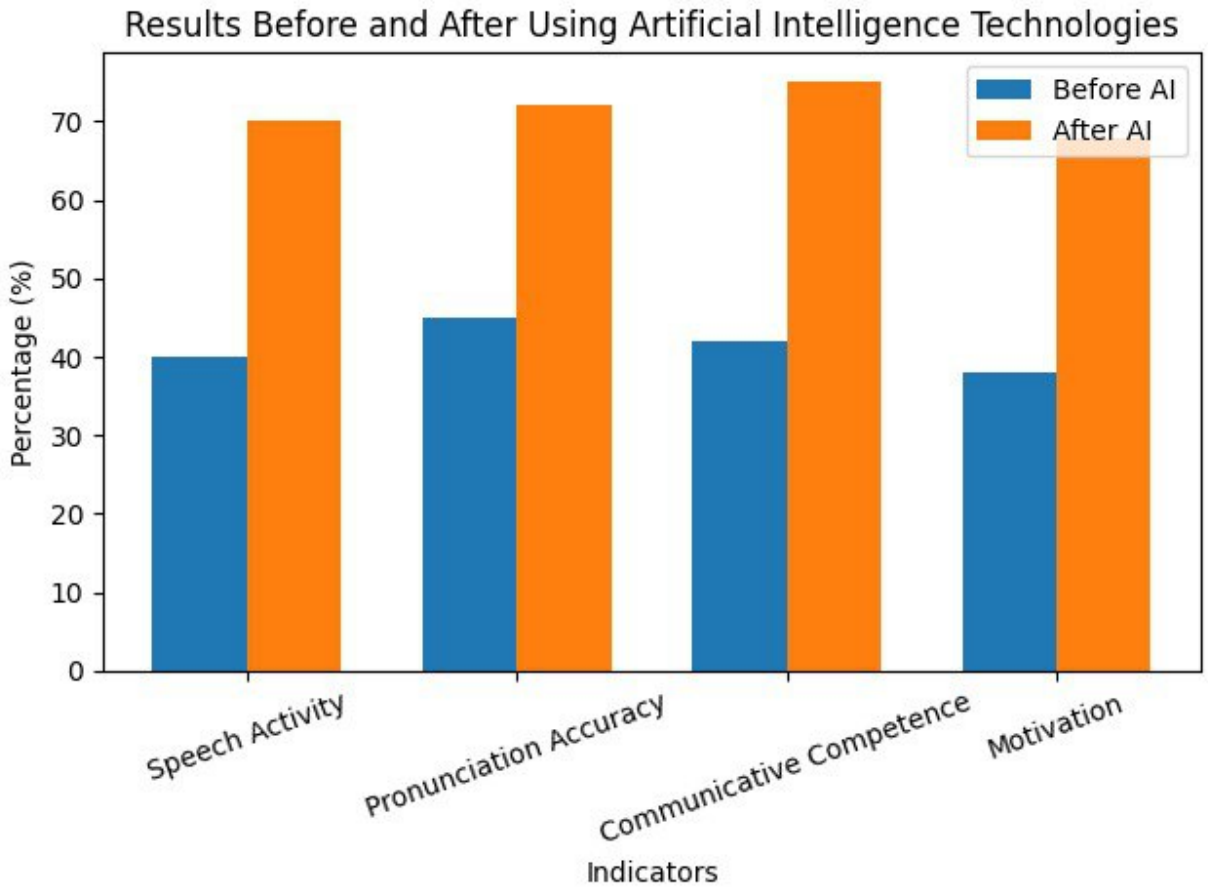
From this perspective, the scientific investigation of the use of artificial intelligence technologies in developing students' English speaking skills is considered one of the important issues in modern pedagogy and language education.

Figure 1. Analysis of the problems observed in the process of developing English speaking skills.



According to the analysis results, the main factors hindering the development of students' speaking skills in learning English include the lack of a communicative environment, difficulties in pronunciation, and the insufficient use of modern interactive learning tools.

Figure 2. The impact of artificial intelligence technologies on the development of students' English speaking skills.



The analysis results indicate that the use of artificial intelligence technologies has a significant positive impact on the development of students' English speaking skills. In particular, the use of AI-based educational platforms has led to noticeable improvements in students' speech activity, pronunciation accuracy, and communicative competence. Moreover, the presence of interactive learning environments and rapid feedback mechanisms contributes to increasing students' motivation and engagement in the learning process.

Therefore, the use of artificial intelligence technologies can be considered an important pedagogical tool for improving the effectiveness of English language teaching. Addressing this issue on a scientific basis requires the development of effective pedagogical mechanisms for using artificial intelligence technologies in the

development of students' English speaking skills and their integration into the educational process.

RESEARCH METHODS

During the research process, a комплекс of theoretical, empirical, and statistical methods was employed. Based on theoretical methods, scientific and pedagogical literature, international studies, and various academic sources were analyzed.

Empirical methods included observation, questionnaires, pedagogical experiments, and comparative analysis. The obtained results were summarized and interpreted using statistical analysis methods.

MAIN RESULTS

The results of the study demonstrated that the use of artificial intelligence technologies plays a significant role in developing students' English speaking skills. In particular, the use of AI-based educational platforms had a positive impact on increasing students' speech activity, improving pronunciation accuracy, and enhancing their communicative competence.

The study also revealed that interactive learning activities organized through artificial intelligence tools are effective in developing students' ability to communicate freely in English.

Furthermore, it was observed that artificial intelligence technologies create opportunities for individualized learning and increase students' engagement in the educational process. The obtained results indicate that the use of AI technologies serves as an effective pedagogical tool for improving the efficiency of English language teaching.

CONCLUSION

In conclusion, the use of artificial intelligence technologies in the modern educational system is emerging as an important pedagogical tool for developing students' English speaking skills. The results of the study confirm that the integration of AI-based educational platforms into the learning process positively influences students' speech activity, improves their pronunciation skills, and enhances their communicative competence.

Moreover, artificial intelligence technologies create opportunities for individualized learning, thereby increasing students' interest and motivation in learning English. Interactive learning environments and rapid feedback mechanisms further stimulate students' speaking activity.

Overall, the findings of this research demonstrate that the use of artificial intelligence technologies is one of the key factors in increasing the effectiveness of English language teaching. Therefore, it is advisable to widely integrate AI technologies into the process of teaching foreign languages in higher education institutions.

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