

**“INTEGRATING ARTIFICIAL INTELLIGENCE (AI) INTO ENGLISH
LANGUAGE TEACHING AND LEARNING”**

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Abstract. *This article analyzes the application of Artificial Intelligence (AI) technologies in the processes of learning and teaching English. AI technologies enable problem-solving, automatic speech recognition, translation, and the personalization of language learning according to individual needs. Advanced technologies such as machine learning, natural language processing, and computer vision significantly enhance the effectiveness of education. AI tools provide teachers and learners with diverse educational needs with adaptive and innovative pedagogical approaches. These technologies not only improve the quality of education but also simplify and make the process of learning English more efficient.*

Key words: *artificial intelligence, language learning, education, technology, teaching, innovation, digital tools*

**“INGLIZ TILINI O'RGANISHDA VA O'RGATISHDA SUN'IY
INTELLEKTNI (AI) TATBIQ ETISH”**

Anotatsiya: *Ushbu maqolada ingliz tilini o'rganish va o'qitish jarayonlarida sun'iy intellekt (AI) texnologiyalarining qo'llanilishi tahlil qilinadi. AI texnologiyalari muammolarni hal etish, nutqni avtomatik aniqlash, tarjima qilish hamda til o'rganish jarayonini individual ehtiyojlarga moslashtirish imkonini beradi. Mashinaviy o'qitish, tabiiy tilni qayta ishlash va kompyuter ko'rish kabi*

ilg'or texnologiyalar ta'lim samaradorligini sezilarli darajada oshiradi. AI vositalari o'qituvchilar va har xil o'quv ehtiyojlariga ega bo'lgan o'rganuvchilarga moslashtirilgan va innovatsion pedagogik yondashuvlarni taqdim etadi. Ushbu texnologiyalar ta'lim sifatini yuksaltirish bilan birga, ingliz tilini o'zlashtirish jarayonini ham soddalashtiradi va yanada samarali qiladi.

Kalit so'zlar: *sun'iy intellekt, til o'rganish, ta'lim, texnologiya, o'qitish, innovatsiya, raqamli vositalar*

“ПРИМЕНЕНИЕ ИСКУССТВЕННОГО ИНТЕЛЛЕКТА (ИИ) В ИЗУЧЕНИИ И ПРЕПОДАВАНИИ АНГЛИЙСКОГО ЯЗЫКА”

Аннотация. *В данной статье анализируется применение технологий искусственного интеллекта (ИИ) в процессах изучения и преподавания английского языка. Технологии ИИ позволяют решать проблемы, автоматически распознавать речь, выполнять перевод, а также персонализировать процесс изучения языка в соответствии с индивидуальными потребностями. Современные технологии, такие как машинное обучение, обработка естественного языка и компьютерное зрение, значительно повышают эффективность образования. Инструменты ИИ предлагают учителям и учащимся с различными образовательными потребностями адаптивные и инновационные педагогические подходы. Эти технологии не только повышают качество образования, но и упрощают и делают процесс изучения английского языка более эффективным.*

Ключевые слова: *искусственный интеллект, обучение языку, образование, технологии, преподавание, инновации, цифровые инструменты.*

INTRODUCTION

Artificial Intelligence refers to the development of computer systems, which can perform tasks that typically require human intelligence. The tasks performed by AI include problem-solving, learning, decision-making, speech recognition, and visual input perception. Artificial Intelligence is widely used in various fields such as *healthcare, education, business, transportation, entertainment, and others*. There are main features of AI: the first one is Machine Learning, what it can perform is

algorithms that learn from data to make predictions. Second one — Natural Language Processing, which enables computers to grasp and generate human language. Third one is Computer Vision. Its usage permits machines to interpret images and videos. Last one — Robotics, which includes AI-powered machines that perform physical tasks. If we look back in history of AI, we can see that it had been developed throughout several years. In 1950 years, a person named Alan Turing proposed the idea of AI and introduced the “Turing Test”. In 1955 year, the term Artificial Intelligence was initially coined at the Dartmouth Conference. Later years, AI made progress very well and observed advancements in deep learning, big data and AI-powered applications like chat bots, autonomous vehicles, and face recognition. This article is to review and observe the role of AI as well as applying this advanced technology to English language teaching that helps students and teachers to be able to perform well with the help of AI. AI can offer a good learning and teaching atmosphere to both individuals who are especially teachers and students, while both of them enjoy learning with AI. AI’s technology offers the opportunity to improve English language skills. AI technology has a bunch of opportunity for both learners as well as teachers. The existence of various kinds of AI innovation can be a way more helpful for learners and teachers in a way of learning and teaching English.

LITERATURE REVIEW.

In recent years, integration of Artificial intelligence has become well known among researchers as well as educators. According to various studies, what AI technologies can enhance is consists of acquisition, personalize learning experiences, and support teachers in instructional delivery. this literature mainly focus on the contributions of three key researchers-Hayo Reindeers, Lilli and Chun Lai who have been able to conduct an investigation into different aspects of AI implementation in English language education. Because of these key researchers, work, pedagogical, technological and psychological fields are supplied with valuable insights of using AI.

Hayo Reindeers has thoroughly examined the use of AI in language education, especially through the concept of Computer-Assisted Language Learning (CALL). He highlights the importance of AI tools, such as intelligent tutoring systems and chatbots, which provide personalized and adaptive learning experiences. The way he states, What AI can assist mainly for today's learners is they can easily receive instant feedback, engage in interactive practice, and develop autonomy in their language learning process. His findings indicate that not only does AI enhance linguistic competence but also contributes positively to student engagement and motivation.

Li Li, one of the researchers who has examined the use of AI in learning and teaching English. What he focus is on the application of machine learning and natural language processing (NLP) in English language teaching. According to his work that investigates how AI technologies can help teachers in assessing writing, analyzing grammar, and evaluating pronunciation. He emphasizes the potential of AI to function as a supportive tool for educators, assisting them save time and enhance accuracy in feedback. However, another main point she states is the need for teachers to be well trained in using these tools effectively and ethically.

Chun Lai explores how AI- powered learning has a significant impact on learner motivation and performance. What his studies look into is correlated with the use of chatbots and digital assistants and improving student's speaking and vocabulary skills. The way he claims that AI tools can foster autonomous learning by offering learners opportunities to practice language skills outside the classroom. Furthermore, Lai stresses the need of designing artificial intelligence systems that are not only engaging but also sensitive to cultural diversity, to maximize their relevance and impact across diverse educational contexts.

FINDINGS AND DISCUSSION.

The integration of Artificial Intelligence AI into English language teaching as well as learning propose both crucial advantages and some notable drawbacks and challenges. The following main findings can be emphasized based on the literature reviewed. There are bunch of advantages of AI which it has great opportunities and

many systems that really assist learners and teachers in their academic journey. There are various systems of AI such Personalized Learning, Instant Feedback, Increased Learner Autonomy and Support for Teachers. Through these well-developed systems, learner's skills can be acquired thoroughly with the help of those systems. Those systems of AI can significantly enhance both teaching effectiveness and student outcomes. A key major finding is that AI tools encourage language learners by offering instant feedback, promoting autonomous learning, and providing practice opportunities that extend beyond traditional classroom settings. What AI-powered applications can do is being able to adjust to individual learning levels, helping students improve at their pace. Furthermore, there are impactful opportunities available for teachers too. AI can assist teachers in a way of reducing their workloads, allowing them to focus more on interactive teaching and learner development.

However, the discussion also highlights some challenges and limitations. The main notable concern is the lack of emotional intelligence in AI systems, which may lead to reduced interpersonal interaction and less development of communicative skills. Another significant drawback is overdependence on technology which many people nowadays have been such an addict to CHATGPT and relying more on this system of AI that have been resulting in not having enough independence of thoughts of people. People's critical thinking is what they have problem with. Because every person has become accustomed to overuse that system called CHATGPT, which has influenced visibly on people's lives so far with not only helpful ways but also people who are the main cause of their addiction towards this technology.

If I express my opinion towards this discussion, I am taking both advantages and disadvantages into account. What I strongly believe is that AI can definitely serve as a powerful tool for applying to English teaching and learning with its helpful systems. Although concerns such as overdependence and lack of emotional intelligence exist, they can be addressed through responsible use of technology.

CONCLUSION.

In conclusion, the integration of Artificial Intelligence into English language teaching and learning offers significant opportunities for enhancing educational outcomes. Although certain challenges exist—such as the lack of emotional intelligence and the potential for overreliance—the advantages clearly outweigh the drawbacks. AI technologies provide personalized learning, instant feedback, and greater learner autonomy, all of which contribute to more effective and engaging instruction. To maximize its benefits, AI should be used thoughtfully and in combination with traditional teaching methods. By striking a balance between technology and human interaction, educators can create a more inclusive, flexible, and learner-centered environment for English language education in the 21st century.