

## ARTIFICIAL INTELLIGENCE AS A VIRTUAL ASSISTANCE TO ENGLISH TEACHERS

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### Abstract:

The digital age has significantly transformed education, with Artificial Intelligence (AI) playing a crucial role, particularly in English language teaching and learning. This article examines AI's impact, highlighting its benefits for students and teachers. AI-powered platforms provide personalized learning by tailoring lessons based on individual student data, enhancing learning experiences and confidence. Tools like virtual assistants and chatbots improve communication skills and critical thinking. AI also offers access to up-to-date language resources, aiding reading and listening skills. For teachers, AI automates administrative tasks, allowing more focus on personalized instruction. The article emphasizes that AI should complement, not replace, human educators, as human interaction and empathy remain essential. AI has the potential to revolutionize English language instruction, making it more engaging, efficient, and effective for both learners and educators.

**Keywords:** chatbots, artificial intelligence, benefits of implementing AI in teaching English, personalization of education.

### Introduction

The advent of the digital age has brought about a transformation in many other fields, including education, since technology has become an indispensable component of our everyday life. A substantial amount of progress has been made in the field of language learning and teaching thanks to the application of technology, particularly Artificial Intelligence (AI). English, which serves as the lingua franca for the entire world, is a language that a great number of people try to become proficient in. As a result of the development of artificial intelligence technology, the process of teaching English has become more accessible, individualized, and efficient than it has ever been before. This article will discuss the impact that artificial intelligence technology has had on both students and teachers of English, as well as the function that it plays in the teaching of English.

Personalized learning experiences are one of the most significant benefits that artificial intelligence technology brings to the field of English language instruction. Every student has their own set of skills, limitations, and preferred methods of learning. Platforms and applications that are powered by artificial intelligence are able to assess unique student data, such as performance, preferences, and progress, in order to personalize lessons and materials to the exact requirements of each individual student. Learners are able to concentrate on areas in which they require additional practice, receive timely feedback, and advance toward their



goals at their own speed thanks to this individualized approach. The use of artificial intelligence technology improves students' overall learning experience and promotes their confidence in their ability to use English by adapting to the specific requirements of each learner.<sup>1</sup>

Additionally, artificial intelligence technology provides a wide variety of interactive tools and resources that make it easier to learn a language. Intelligent virtual assistants, chatbots, and language learning programs have the ability to engage students in discussions, provide feedback in real time, and imitate real-life language situations. Not only do these techniques improve one's ability to communicate and listen, but they also encourage critical thinking, problem-solving, and creative thinking. As an illustration, chatbots have the capability to engage students in conversations and offer rapid corrections, thereby assisting them in improving their grammar and vocabulary in a manner that is both natural and interactive. Platforms for language learning that are powered by artificial intelligence are also able to generate activities, quizzes, and games that make the process of learning more interesting and enjoyable.

Learners are able to gain access to a broad array of genuine and up-to-date language resources thanks to the technology of artificial intelligence. Using artificial intelligence algorithms, online platforms and applications are able to curate content that is both relevant and of high quality. This content includes articles, videos, podcasts, and news, and it is based on the learners' interests and levels of skill. Learners are able to improve their reading and listening abilities, broaden their vocabulary, and acquire a more profound comprehension of the English language in the context of real-world situations when they are exposed to authentic resources. Language learning platforms that are powered by artificial intelligence also offer learners rapid translations, pronunciation instructions, and examples, which enables them to study and comprehend difficult materials in a more efficient manner.

Not only can artificial intelligence technology aid students, but it also provides support to teachers of English in a variety of different ways. The use of platforms that are driven by artificial intelligence can provide assistance to educators in automating administrative chores such as grading assignments, monitoring student progress, and producing performance reports. According to Afrianto teachers are able to devote their attention to providing students with tailored instruction, offering feedback, and helping students through their language learning journeys as a result of this automation, which frees up valuable school time.<sup>2</sup> Additionally, artificial intelligence technology can provide assistance to instructors in recognizing common learning challenges among students, recommending specific solutions, and modifying instructional tactics to fit the varied requirements of learners. Through the utilization of artificial intelligence technology, educators have the ability to become more effective facilitators and mentors, thereby developing students' love for English and enhancing their language skills.

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<sup>1</sup> Akmalxonovich, A. S. F., & Yurevna, A. Y. (2021). VIDEO GAMES IN THE PROCESS OF LEARNING ENGLISH. *Евразийский журнал академических исследований*, 1(9), 897-902.

<sup>2</sup> Afrianto, I., Irfan, M. F., & Atin, S. (2019). Aplikasi Chatbot Speak English Media Pembelajaran Bahasa Inggris Berbasis Android. *Komputika : Jurnal Sistem Komputer*, 8(2), 99-109.



On the other hand, it is essential to recognize that artificial intelligence technology should not completely do away with human educators. The significance of instructors in the process of language acquisition is not going away any time soon. There are crucial features of language acquisition that cannot be entirely replicated by artificial intelligence technology. These aspects include human interaction, empathy, and cultural understanding. It is for this reason that the incorporation of artificial intelligence technology into English language classrooms ought to be regarded as a supplementary instrument that helps to improve teaching and learning, rather than as a replacement for human instruction.

Let's talk about the topic of the potential role that Artificial Intelligence (AI) technology could play in the English language classroom. AI-powered platforms are able to assess enormous amounts of data on individual learners, including their strengths, limitations, and learning habits. This type of learning is referred to as adaptive learning. Because of this data analysis, the system is able to modify and tailor the educational experience to the specific needs of each individual learner. Adaptive learning algorithms have the ability to modify the level of difficulty of exercises, offer feedback that is specifically targeted, and make recommendations for relevant learning resources based on the individual requirements of the learner. Through the use of this individualized method, students are able to advance at their own pace and concentrate on subject areas that require more attention.

Natural Language Processing, sometimes known as NLP, is a subfield of artificial intelligence that focuses on the relationships that exist between computers and human language. The use of natural language processing algorithms has considerably increased language learning by making it possible for chatbots and virtual assistants to hold discussions with students that are as realistic as possible. These language partners powered by artificial intelligence are able to provide instant feedback, correct pronunciation, and offer explanations, which makes the process of learning a language more dynamic and immersive.<sup>3</sup> Additionally, natural language processing algorithms make automatic speech recognition possible, which enables students to practice speaking and receive feedback in real time. The development of intelligent tutoring systems (ITS) has been made possible by the technology of artificial intelligence (AI). These systems make use of artificial intelligence algorithms in order to deliver individualized training, monitor the development of students, and provide feedback. It is possible for ITS to identify areas of difficulty that are prevalent among learners and then deliver treatments that are specifically designed to address those issues. Learners are able to overcome challenges and efficiently enhance their English language skills with the assistance of intelligent tutoring systems, which provide tailored coaching. Language learning platforms that are powered by artificial intelligence frequently use gamification features in order to make the learning process more entertaining and fascinating. Motivating learners and stimulating their competitive spirit can be accomplished through the use of gamified exercises, quizzes, and challenges.

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<sup>3</sup> Han, B. (2019). Application of Artificial Intelligence in Autonomous English Learning among College Students. *International Journal of Emerging Technologies in Learning(IJET)*, 14(06), 63–74.



Algorithms powered by artificial intelligence have the ability to monitor the progress of learners, award points, and issue incentives, so fostering a sense of success and promoting additional engagement. Virtual reality (VR) and augmented reality (AR) are two examples of interactive learning elements that can give learners with immersive language experiences. These features enable students to practice their English language skills in situations that are simulated to be found in the real world.

AI technology has enhanced language assessment by providing automated grading and feedback. Natural Language Processing algorithms can evaluate written and spoken responses, assess grammar, vocabulary, and fluency, and generate instant feedback. This immediate feedback allows learners to identify and correct mistakes promptly, reinforcing their understanding of the language. AI-powered assessment tools also relieve the burden of manual grading for teachers, allowing them to focus on providing more targeted and comprehensive feedback.<sup>4</sup> AI-powered language learning platforms have made English education more accessible to learners worldwide. Online platforms offer on-demand access to learning materials, eliminating geographical barriers and enabling learners to study at their convenience. Moreover, AI technology has facilitated the creation of mobile applications that allow learners to practice English anytime, anywhere. These applications often offer offline functionality, making them suitable for learners with limited internet access.

Li suggested that learning data can be continuously analyzed by AI algorithms, which can then alter the content and resources to meet the needs of the learners. The use of AI-powered platforms allows for the recommendation of fresh and challenging content to learners as they progress, which helps to keep them interested and motivated.<sup>5</sup> A further advantage of artificial intelligence technology is that it enables students to investigate numerous parts of the English language, including vocabulary, grammar, listening comprehension, and cultural settings, in a manner that is both customized and self-directed. Those who are learning have the ability to zero in on their areas of interest and adjust their educational route accordingly. The employment of artificial intelligence technology in English instruction should be done so with caution, despite the fact that it offers a multitude of advantages. In the process of language acquisition, the human element continues to be essential because teachers offer emotional support, cultural insights, and tailored instruction that cannot be replicated by artificial intelligence. Rather than providing a replacement for human teachers, the incorporation of artificial intelligence technologies ought to supplement and improve the instructional process. To summarize, artificial intelligence technology has completely altered the way in which English is taught and learned. Language learning has become more entertaining, efficient, and effective as a result of its individualized approach, interactive tools, and access to authentic resources. Additionally, artificial intelligence technology assists educators in the delivery of unique learning

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<sup>4</sup> Akmalxonovich, A. S. F. (2022, December). THE NECESSITY OF USING DIGITAL TECHNOLOGIES IN TEACHING ENGLISH. In *Proceedings of International Conference on Modern Science and Scientific Studies* (Vol. 1, No. 3, pp. 420-425).

<sup>5</sup> Li, R. (2020). Using Artificial Intelligence in Learning English as a Foreign Language: An Examination of IELTS LIULISHUO as an Online Platform. *Journal of Higher Education Research*, 1.



experiences, the automation of administrative processes, and the provision of individualized education. With the further development of artificial intelligence, there is a significant possibility that technology may further revolutionize English language instruction, giving both students and teachers more agency. We can open up new avenues for language acquisition and better prepare individuals to flourish in a world that is becoming increasingly interconnected if we adopt artificial intelligence technology in the classroom and use it to teach English. Artificial intelligence technology has brought about a revolution in the field of English language instruction. The way in which English is taught and learned has been revolutionized as a result of its adaptive learning capabilities, natural language processing algorithms, intelligent tutoring systems, gamification, and automated assessment tools. Utilizing artificial intelligence allows for the provision of personalized learning, interactive experiences, and access to real materials for students, while also allowing teachers to optimize their instructional tactics and provide individualized feedback for students. Students and teachers alike will have access to even more exciting opportunities in the future of English language instruction as a result of additional developments in artificial intelligence.

## Conclusion

The use of technology that utilizes artificial intelligence has brought about a significant shift in English language instruction, making it more individualized, interesting, and effective. To summarize, the technological advancements have been the driving force behind this transition. An enhancement in the learning experience for both students and teachers can be achieved through the use of artificial intelligence in a number of different ways. Some of these approaches include adaptive learning, natural language processing, intelligent tutoring systems, gamification, and automated assessment tools. In addition to supporting teachers in making the most of their instructional tactics and administrative tasks, it provides students with tools that may be customized to meet their specific requirements and are interactive. Nevertheless, the human factor continues to be of highest importance, as educators continue to supply the required emotional support, cultural insights, and specialized counsel that cannot be copied by artificial intelligence. The continuing development of artificial intelligence technology has the potential to bring about additional changes in the way English language instruction is carried out. Both students and teachers would have a greater degree of control as a result of this, and it would also open up new opportunities for making language learning more effective in a world that is growing more interconnected.

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