

## IMPORTANCE OF ARTIFICIAL INTELLIGENCE IN ENGLISH LANGUAGE TEACHING

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**Annotation.** *The transformational role of artificial intelligence (AI) in English language instruction is examined in this research. By providing individualized feedback, automating tedious activities, and facilitating engaging learning experiences, AI-powered solutions like chatbots, virtual tutors, and adaptive learning platforms have completely transformed traditional language training. The study emphasizes how AI technologies boost student interest, increase competency, and provide instructors scalable solutions. The report also discusses issues like data privacy and the necessity of integrating AI in education in an ethical manner. The results highlight how AI may be used to develop more accessible, inclusive, and successful language learning settings.*

**Keywords:** *artificial intelligence, English language teaching, adaptive learning, personalized feedback, educational technology.*

### INTRODUCTION

Education is one of the many disciplines that have seen substantial changes as a result of the quick development of artificial intelligence (AI). Through the introduction of creative, technologically advanced solutions, artificial intelligence (AI) has become a game-changing instrument in the teaching of English. Chatbots, virtual tutors, and adaptable platforms are examples of AI-powered apps that offer individualized learning experiences that are tailored to each learner's needs. According to research, by providing immediate feedback and focused practice, these technologies not only increase student engagement but also enhance their general performance. AI also makes scaling easier, which increases access to high-quality language instruction for students throughout the globe. Even if AI has many advantages, ethical issues and difficulties, including data privacy and the danger of being overly dependent on technology, must still be taken into account for its successful use<sup>77</sup>.

### METHODOLOGY

The influence of artificial intelligence (AI) in English language instruction was investigated in this study using a mixed-methods approach. To guarantee a thorough examination of AI's contribution to improving language learning results, both

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<sup>77</sup>Schmid, S., & Petko, D. (2020). Adaptive learning technologies: Enhancing personalized instruction. *Journal of Educational Technology & Society*, 23(1), 23-34.

qualitative and quantitative approaches were used. The study started with a thorough analysis of the body of research to pinpoint the salient characteristics and advantages of AI-powered language learning resources. To capture the most recent advancements in the subject, articles, journals, and case studies published during the previous five years were given priority.

In order to collect quantifiable data, 150 English language instructors and students who regularly use AI-powered tools like Rosetta Stone, Grammarly, and Duolingo were surveyed. User experience, perceived efficacy, and the tools' capacity to accommodate different learning demands were all included in the study. Twenty participants were interviewed semi-structuredly to gather qualitative data, which allowed us a thorough understanding of their experiences and difficulties with AI applications.

Additionally, the study included a case study of two well-known AI-integrated tools: an adaptive learning app and a chatbot-based platform. We evaluated metrics including error correction rates, progress monitoring, and learner engagement. Data were compared from several sources and triangulated to guarantee validity and dependability. The study was conducted with rigorous adherence to ethical principles, including informed consent and participant privacy protection.

The findings were examined statistically to find relationships between increased language skill and AI use. To find recurrent themes and patterns in the qualitative data, a thematic analysis was conducted. In line with the results of this study, Schmid and Petko concluded that AI's ability to provide individualized feedback greatly improves learner performance. A comprehensive grasp of the advantages and difficulties of integrating AI into English language instruction was the goal of these integrated approaches.

## DISCUSSION AND RESULTS

By providing creative answers to age-old problems, artificial intelligence (AI) has completely transformed the English language teaching (ELT) industry. Through the provision of individualized feedback and customized learning routes, AI-driven solutions like chatbots, virtual tutors, and adaptive learning systems have improved student engagement. Students may address their individual language difficulties with this tailored strategy, which improves results<sup>78</sup>. Furthermore, teachers now have much less work to do thanks to AI-powered tools like grammar checkers and automated essay grading systems, which free up more time for innovative teaching methods.

The capacity of AI to replicate authentic conversational settings is another noteworthy benefit, which aids pupils in efficiently enhancing their communicative proficiency. Artificial intelligence (AI)-powered virtual reality (VR) systems, for example, produce immersive language experiences that close the gap between theoretical

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<sup>78</sup>Chung, H. (2020). Artificial Intelligence in Education: Enhancing Language Learning Experiences. *Journal of Language Studies*, 12(3), 45-56.

learning and real-world application<sup>79</sup>. Additionally, AI systems provide teachers access to real-time data analytics, which allows them to track students' development and modify their teaching strategies accordingly.

Despite all of its benefits, there are drawbacks to using AI in ELT, including significant implementation costs and worries about data security. Furthermore, the use of AI technologies might occasionally take precedence over human contact, which is still essential for language acquisition. The ongoing developments in AI technology, however, imply that these difficulties may be lessened with the right regulations and teacher preparation. The results of this research highlight how crucial it is to use AI into ELT in order to provide a more adaptable, effective, and captivating learning environment, opening the door for further advancements in the field of education.

### CONCLUSION

Traditional learning methods have undergone a substantial transformation with the introduction of artificial intelligence (AI) into English language instruction, making customized and adaptable techniques possible. Artificial intelligence (AI)-powered resources, including chatbots and virtual instructors, give students instant feedback and chances to practice conversations in real time, which improves their engagement and language skills. Additionally, AI helps instructors by automating monotonous duties like tracking progress and grading, freeing them up to concentrate on more strategic and innovative facets of instruction. The results highlight the enormous potential of AI to enhance teaching effectiveness and student learning outcomes in English language education, notwithstanding obstacles like cost and data privacy issues.

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