

RESEARCH ARTICLE

Use of AI Tools in Teaching–Learning English

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Accepted version published on 5 September 2026

ABSTRACT

Artificial Intelligence (AI) has become one of the most influential technological developments in modern education. In English Language Teaching (ELT), AI tools have transformed traditional teaching methods by making learning more interactive, personalized, and learner-centered. AI-powered applications such as chatbots, grammar-correction tools, speech-recognition software, and intelligent tutoring systems help students improve their listening, speaking, reading, and writing skills. These technologies also assist teachers in lesson planning, assessment, feedback, and classroom management. Integrating AI into English education promotes independent learning, motivation, and effective communication skills. However, challenges such as technological dependence, ethical concerns, reduced human interaction, and digital inequality continue to affect implementation. This research paper examines the role, applications, benefits, limitations, and prospects of AI tools in teaching and learning English. The study concludes that AI can significantly improve English education when used responsibly under proper teacher guidance.

Keywords: AI Tools, ELT, Language Learning, Educational Technology

FULL PAPER

Introduction

Advances in science and technology have brought remarkable changes to education worldwide. One of the most important innovations in recent years is Artificial Intelligence (AI). AI refers to computer systems and technologies that can perform tasks requiring human intelligence, such as understanding language, solving problems, analyzing data, and making decisions. In education, AI has introduced new possibilities for improving teaching and learning. English language teaching has particularly benefited from AI technologies. Traditional language teaching methods mainly relied on textbooks, lectures, and classroom interaction. Although these methods remain important, they often fail to meet students' individual learning needs. Every learner has different abilities, learning speeds, and interests. AI tools help address this problem by providing personalized learning experiences based on the learner's level and performance.

Today, students use various AI-based applications such as ChatGPT, Grammarly, Duolingo, Google Translate, and speech recognition software to improve their English language skills. These tools provide immediate feedback, pronunciation correction, grammar assistance, vocabulary development, and communication practice. Teachers also use AI to prepare teaching materials, conduct assessments, and monitor student progress. The growing use of AI in English education has shifted learning from teacher-centered to learner-centered and technology-supported. Therefore, studying the role and effectiveness of AI tools in teaching and learning English has become highly relevant in the current educational context.

Objectives of the Study

The present study aims to understand the importance and impact of Artificial Intelligence tools in English language teaching and learning. The research explores how AI technologies are changing traditional classroom practices and supporting both teachers and students in the language learning process. The study also identifies different AI tools used in English education and examines their advantages and limitations. Another objective is to understand how AI contributes to developing language skills such as listening, speaking, reading, and writing. The study also aims to suggest effective ways to integrate AI tools into English language classrooms responsibly and efficiently.

Research Methodology

This research paper uses a qualitative, descriptive research methodology. The study mainly depends on secondary data collected from books, research journals, educational websites, articles, and published reports related to Artificial Intelligence and English language teaching. The study analyzed various scholarly studies and academic resources to understand the role of AI tools in modern education. The collected information has been interpreted systematically to examine the benefits, challenges, and future scope of AI in teaching and learning English.

Concept of Artificial Intelligence in Education

Artificial Intelligence in education refers to the use of advanced technologies and computer systems that can imitate human intelligence in teaching and learning activities. AI systems can analyze learner behavior, understand language patterns, provide automated responses, and offer personalized educational support. In education, AI helps create adaptive learning environments where lessons and activities are designed around learners' individual needs. In English language teaching, AI mainly works through Natural Language Processing (NLP), machine learning, and speech recognition technologies. These technologies allow students to interact with machines in human language. AI systems can identify grammatical errors, suggest better vocabulary, evaluate pronunciation, and provide instant feedback on writing and speaking tasks. Such personalized support helps learners improve their language skills effectively and confidently. The introduction of AI in education has also changed teachers' roles. Teachers are no longer only providers of information but also facilitators and guides who help students use technological resources properly. AI does not replace teachers; rather, it supports them in making the teaching process more efficient and learner-friendly.

AI Tools Used in Teaching–Learning English

A) Chatbots and Conversational AI:

Chatbots are AI-powered systems designed to simulate human conversation. In English language learning, conversational AI tools such as ChatGPT let students interact in English through text or voice. These tools help learners practice conversation, improve vocabulary, and develop confidence in communication skills. Students can ask questions, receive explanations, generate essays, and practice dialogues without fear of criticism or embarrassment. Chatbots are especially useful for learners who hesitate to communicate in traditional classroom environments. Because the interaction is immediate and available at any time, students can

practice English regularly at their convenience. Teachers also use chatbots for classroom activities, comprehension exercises, and creative writing tasks.

B) Grammar and Writing Assistance Tools:

Grammar correction tools such as Grammarly, QuillBot, and ProWritingAid have become highly popular among English learners. These AI-powered applications help students identify grammatical mistakes, spelling errors, punctuation problems, and sentence structure issues. They also suggest improvements to vocabulary, style, and clarity. Writing assistants are beneficial because they provide instant feedback and allow students to learn from their mistakes independently. Such tools encourage learners to revise and improve their writing repeatedly. As a result, students develop confidence in academic and professional writing. Teachers also use these applications to save time in correcting assignments and providing feedback.

C) AI-Based Language Learning Applications:

AI-powered language learning applications such as Duolingo and ELSA Speak provide interactive and personalized learning experiences. These applications use machine learning algorithms to understand the learner's strengths and weaknesses and then design lessons accordingly. Students receive exercises based on their learning progress and performance. These applications include gamified activities, quizzes, rewards, and progress tracking systems that increase student motivation and engagement. Learners can practice vocabulary, grammar, pronunciation, and comprehension skills in an enjoyable way. Such applications promote self-learning and allow students to continue learning outside the classroom.

D) Speech Recognition and Pronunciation Tools:

Speech recognition technology is one of the most useful AI applications in language learning. Pronunciation tools analyze the learner's speech and compare it with native speaker pronunciation. Applications such as Google Translate and ELSA Speak help learners improve pronunciation, accent, fluency, and intonation. These tools are particularly useful for non-native English speakers who struggle to speak confidently. AI-based pronunciation systems provide immediate corrections and opportunities for repeated practice. As students practice regularly, their speaking confidence and communication abilities gradually improve.

E) Intelligent Tutoring Systems:

Intelligent Tutoring Systems are AI-based educational platforms that provide personalized learning support like human tutors. These systems monitor learner performance continuously and identify areas where students need improvement.

They then provide appropriate exercises, explanations, and learning resources based on the learner's needs. Such tutoring systems support self-paced learning and allow students to learn independently. Students can repeat lessons and activities until they fully understand the concept. Intelligent tutoring systems are highly effective in improving learner performance and reducing learning difficulties.

F) Role of AI in Developing Language Skills :

Artificial Intelligence contributes significantly to developing all four language skills: listening, speaking, reading, and writing. In listening activities, AI tools provide audio lessons, podcasts, and speech-based exercises that improve comprehension abilities. Learners can listen to different accents and speaking styles repeatedly, as needed. In speaking skill development, conversational AI and pronunciation tools provide opportunities for regular practice and communication. Students become more confident as they receive immediate feedback on pronunciation and fluency.

AI systems improve reading skills by recommending materials based on the learner's level and interests. These systems also provide vocabulary support and comprehension exercises to improve understanding. Writing skills are enhanced through grammar correction tools and AI writing assistants. Through continuous feedback and revision, students learn correct grammar usage, sentence formation, coherence, and vocabulary.

Advantages of AI Tools in English Language Teaching

AI tools offer numerous advantages in English language teaching and learning. One major benefit is personalized learning. AI systems understand individual learner needs and provide customized lessons and exercises. This helps students learn at their own pace and according to their abilities. Another important advantage is immediate feedback. Traditional classroom assessment often takes time, but AI tools provide instant corrections and suggestions. This helps learners identify and correct mistakes quickly. AI applications also increase student engagement and motivation through interactive activities, games, quizzes, and multimedia resources. Learning becomes more enjoyable and less stressful. Teachers benefit greatly from AI tools because they reduce workload in areas such as grading, lesson planning, and assignment checking. AI also helps teachers monitor student progress effectively. AI promotes learner autonomy by encouraging self-learning and independent practice. Students can access learning materials anytime and anywhere, making education more flexible and accessible.

Challenges and Limitations of AI in ELT

Despite its advantages, using AI in English language teaching also presents several challenges. One major limitation is the lack of human interaction. AI systems cannot fully replace the emotional support, motivation, and social communication teachers provide. Another concern is the overdependence on technology. Students may become too dependent on AI-generated answers and stop thinking critically or creatively. Excessive AI use may reduce original writing and problem-solving skills. Academic dishonesty is also a serious issue. Some students misuse AI tools to plagiarize, copy assignments, or generate answers without understanding the concepts.

The digital divide creates inequality because not all students have access to smartphones, computers, or internet facilities. This limits the benefits of AI for economically weaker learners. AI-generated information may sometimes be incorrect or biased. Therefore, students and teachers must verify information carefully before using it for academic purposes. Privacy and data security are additional concerns because AI systems often collect personal and educational data from users.

Role of Teachers in the AI Era

In the age of Artificial Intelligence, teachers remain highly important. Teachers act as guides, mentors, facilitators, and ethical advisors in the learning process. While AI provides technological support, teachers help students develop critical thinking, creativity, and moral values. Teachers must guide students in using AI tools responsibly and teach them how to verify AI-generated information. They should encourage originality and discourage unethical practices such as plagiarism and overdependence on technology. Teachers also need proper training and digital literacy to integrate AI effectively into classroom teaching. By combining traditional teaching methods with modern AI technologies, teachers can create an engaging and effective learning environment.

Findings of the Study

The study reveals that Artificial Intelligence has positively transformed English language teaching and learning. AI tools improve learner engagement, language proficiency, and independent learning abilities. Personalized learning and immediate feedback are among the most effective features of AI-based education. The study also shows that AI tools are particularly useful in developing speaking and writing skills. However, the research also highlights concerns related to technological dependence, ethical misuse, lack of human interaction, and unequal

access to digital resources. The study confirms that AI works best when combined with teacher guidance and traditional teaching practices.

Educational institutions should organize training programs to improve digital literacy among teachers and students. AI tools should be used as supportive educational resources rather than complete replacements for teachers. Schools and colleges should establish ethical guidelines regarding the academic use of AI technologies. Students should be encouraged to use AI critically and responsibly while maintaining originality in their work. Governments and educational authorities should also improve digital infrastructure to ensure equal access to AI-based learning opportunities for all learners.

Conclusion

Artificial Intelligence has emerged as a powerful tool in English language teaching and learning. AI technologies provide personalized learning experiences, immediate feedback, interactive activities, and flexible educational opportunities that effectively improve language skills. Integrating AI into English education supports both teachers and students by making the teaching–learning process more efficient and learner-centered. However, AI also presents challenges related to ethics, academic dishonesty, technological dependency, and a lack of human interaction. Therefore, AI should be used carefully and responsibly under proper teacher guidance. Human teachers continue to play a central role in developing creativity, critical thinking, emotional understanding, and moral values among students. The balanced integration of Artificial Intelligence and traditional teaching methods can create a modern, innovative, and effective English learning environment that meets the educational needs of the twenty-first century.

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