



Research Paper

# A comprehensive review on Open AI's Chat GPT integrated in English Language Teaching

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## Abstract

In recent years, the rapid development of Artificial Intelligence (AI) and AI tools is creating the great driving forces in developing and innovating English Teaching Methods (ELT). In this article, the main content is to present the overview of the integration of OpenAI's ChatGPT in ELT. The overview, challenges, and evolution of OpenAI's ChatGPT integrated in English Language Teaching were extensively studied to point out the most outstanding finds and limitations. From the obtained results, the research direction will be given for the further studies and ELT development.

**Keywords:** English Language Teaching; ChatGPT; Artificial intelligence; pedagogical method

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## I. Introduction

In the era of information technology, education is undergoing fundamental and rapid change to meet new and increasingly demanding needs in the application of information technology in teaching and training, and English Language Teaching (ELT) is no exception. ELT has a long history of development to make this language easily accessible and become an international language used around the world [1]. At the end of the 18th century, the UK spread English through its colonies and colonial rule. Besides, trade, science and technology, diplomacy, arts and education all contribute to make English the first global language [2]. Additionally, the growing economic and cultural influence of the United States coupled with the BBC's global broadcasting in English [3] has spread the language across the planet. In the 21st century, English is used and written more widely than any other language has ever been [4]. Therefore, this language learning method has been researched and developed. In the past, ELT methodologies were mainly based on traditional classroom organization where teachers provide direct instruction, structured curriculum and face-to-face interaction served as the pedagogical foundation [5]. However, with the digital era has changed the approach to ELT [6]. At the end of the 20th century, computers and the internet developed strongly, promoting the combination of multimedia resources such as listening devices and projectors, changing English teaching methods, thereby helping learners approach new means and more intuitive experiences in learning English skills, especially listening skills [7]. Furthermore, with the appearance of computers and the internet, they are considered very modern and powerful tools for storing and searching information. Besides, the digital transformation process has accelerated and developed strongly, deeply affecting all aspects of human life, including English teaching methods. The emergence of E-learning platforms helps learners access high-quality English teaching and resources no matter where they are in the world [8]. The trend of personalized education is developed thanks to an adaptive education system with the application of algorithms and data analysis to manage content in accordance with the level and style of each learner [9]. Recently, the emergence of AI and the rapid development of this technology into all fields is creating new, previously unknown trends and learning methods. AI tools are capable of deep learning and have the potential to reshape ELT by providing superior features or optimizing traditional pedagogical tools such as customization, expanded interactivity [ten]. In this article, the main purpose is to make an overview of English teaching methods integrating OpenAI's ChatGPT and the development of the methods.

## **II. Overview of OpenAI's ChatGPT integration in English language teaching**

The introduction of OpenAI's ChatGPT has created a revolution in artificial intelligence development. The ability to provide adaptive and near-instant feedback to learners has revolutionized access to knowledge and problem solving. Thanks to deep learning capabilities and big data, ChatGPT has quickly changed jobs that previously required time to learn or were taught by qualified teachers, and can now provide immediate results. This can illustrate that students can construct and test questions in real time with immediate feedback and a complete understanding of the problem [11]. Writing an essay in English now does not need to be based on specific content like before, but is now based on the topic. With deep learning capabilities, detecting the support of tools in doing homework has become more and more difficult in the teaching process. In addition, customized learning paths for diverse learning needs for all subjects at any level are creating ChatGPT's appeal, but this is a difficult problem for face-to-face education. system. Besides, limitations in communication and meticulous instruction are also major disadvantages with traditional education when a teacher has to teach a class with a number of students from 30-40, or even 50-70 students in the university teaching level [12]. With AI-integrated tools, learners can easily find and learn grammar rules, vocabulary, sentence structures from simple to complex, and idioms and usage in detail. This helps students gain a deeper understanding. Providing appropriate search results with a large data warehouse has contributed to reducing the time spent searching in textbooks as well as the time spent answering questions directly in class like in traditional ELT. On the other hand, integrating context and illustrations based on text is an outstanding ability of this AI tool, which makes lessons more attractive and intuitive. Participants pointed out that OpenAI's ChatGPT brings dynamic interactivity to ELT by creating real-time conversations that give students regular opportunities to practice. Therefore, the integration of this excellent tool into the pedagogical framework brings great benefits through additional support for teachers. These can be considered effective teaching assistants in improving teaching effectiveness, which is almost impossible in traditional education. Quiet students who are afraid to ask questions in class are a problem in traditional education, which makes it difficult to evaluate the quality of teaching, especially communication in English. This has been improved with the integration of ChatGPT in promoting confidence and opportunities to integrate and communicate in the classroom since all students are in the classroom.

## **III. Challenges for OpenAI's ChatGPT integration in English language teaching**

However, two sides to every story cannot be avoided. English or any other language contains culture in the use of words and the way of expressing ideas. Many teachers have expressed concern about ChatGPT, which did not understand and not fully convey the inherent culture of English. One example worth highlighting is that this AI tool does not always capture the culture and deep meaning of idioms or phrases, instead producing corny or inaccurate results. ChatGPT's ability to pronounce, listen, and communicate orally in English also shows many limitations, although this tool works better in many other areas. Exposure to a variety of accents, speeds, and genders are crucial in understanding language; however, this AI tool stops at providing good support for text content and grammar. Limitations in integrating pronunciation and listening also pose barriers to the application of this technology in ELT. Furthermore, the ultimate goal of teaching English is for students to be able to communicate effectively in different situations in life without a pre-existing script; however, this is a limitation of ChatGPT. The diversity in tone and speaking style corresponding to specific situations is not represented in ChatGPT, making this tool somewhat dry in real communication situations. Therefore, the application of this AI tool into comprehensive educational programs is still an issue that needs to be considered in the future. An issue that needs to be considered as pointed out by teachers is that too much reliance on this tool will lead to lazy thinking, limit the ability to think independently, think creatively and easily make people dependent and stereotyped [13]. These points are the serious problems of education.

## **IV. Evolution of OpenAI's ChatGPT tools in English language teaching**

Although there are still many mixed opinions as well as deep concerns about applying OpenAI's ChatGPT tool in ELT, we cannot deny the benefits it brings. Nowadays, with the rapid development of AI tools and the improvement in human-like interaction, the problems mentioned above will soon be overcome and improved. In the ever-changing landscape of ELT education, teachers have begun to realize the potential of incorporating AI tools like ChatGPT into their teaching methods. With the addition of a vast academic resource in ELT, traditional pedagogical education will have to undergo fundamental changes. Therefore, the application of AI tools in teaching will be an inevitable trend, but the importance of ensuring balance in application must also be emphasized. This future will help us visualize a scenario where human teachers will not be replaced by tools, but tools will assist in making the teaching process better and more effective. However, the partial replacement of human teachers with robotic AI in ELT is one of the most recent advances. The introduction and application of AI robots in teaching English to children at preschool and primary school levels are undeniable advances. For instance, Bonbon - a robot 1,27m tall and weighing 40kg of a group of instructors at the Military Technical Academy can support teaching English, communication and singing and dancing to elementary

school students in Vietnam. Intelligent humanoid robot supporting English teaching for elementary school students (Bonbon) is a research topic under the National Key Science and Technology Program until 2025. Many countries such as Japan, China, Korea, and so forth have introduced robots to support teaching and learning English, becoming effective teaching assistants to help children access knowledge through technology.

## V. Discussion

Through the analysis above, we can see the opportunities and challenges in applying AI technology in integrating English teaching. Research also shows widespread recognition by teachers that ChatGPT provides new learning experiences and is suitable for the specific needs of each student. In a real classroom, differences in awareness, levels and needs among students are a multivariate problem, so providing appropriate pedagogical methods is an inevitable requirement [14]. In ChatGPT, there is an intersection between traditional pedagogical knowledge and modern technology, towards personalized education. An important issue to consider is proficiency in using ChatGPT and facilities for AI-integrated teaching. Indeed, the proficient use of ChatGPT in teaching needs to be emphasized through the introduction of consistent policies and visions in developing teachers. It is necessary to organize training courses and issue certificates as a measure of the quality of the output of the training course. On the other hand, investment in network and computer infrastructure needs to be equal across localities to achieve equal and equitable quality of education in society.

## VI. Conclusion

The content of this article presents an overview of the application of OpenAI's ChatGPT technology integrated in ELT. Common issues in integrating this technology are introduced and analyzed in detail. The advantages and recommended issues in applying AI tools in English teaching are clearly outlined, thereby pointing out the challenges in integrating this technology to support and enrich teaching methods. The application of AI tools brings many benefits and will be an inevitable trend in ELT in today's modern society. Accordingly, some advances in the development of AI technology in teaching are researched and analyzed. From the overall research content, research directions and recommendations are discussed and proposed for future research.

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