



## Teaching English Language through Artificial Intelligence

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**Abstract:** Artificial intelligence is proving to be a potent instrument with the potential to revolutionize a variety of industries, including education. The teaching of languages could be improved using AI models like Chat GPT, Bing's Sydney, and Google Bard, which offer the chance for individualized and flexible learning environments. Although these machine-learning models present intriguing potential, they also raise concerns about the morality of AI-generated replies, their accuracy, and their influence on autonomous and critical thought. The promise and limitations of AI in language learning and teaching are examined in this study article. It will provide the most recent findings, advancements, and trends in AI and language learning.

In the post-pandemic era, the use of educational technologies in English language teaching (ELT) has gained widespread acceptance, and some of these tools, for better or worse, rely on artificial intelligence (AI). In the post-pandemic ELT era, AI-driven technologies in teaching and learning are projected to become increasingly prevalent because of technological advancement and rising financial investment. We are currently experiencing 'weak' AI, which often excels at a limited range of activities across a narrow range of domains. The long-term objective is 'strong' AI, which is comparable to human intelligence; although this is now just a theoretical idea, we may anticipate 'stronger' AI to develop over time.

ELT will not be exempt from this progress; thus, it is our duty as language teachers to understand the advantages and difficulties of AI now to better prepare for the future. The use of AI in ELT is discussed in this article along with some of the benefits and drawbacks it may have for students, teachers, and organizations. In addition to learner wellness and the digital literacies that teachers and students will need to gain to coexist in a brave new world of educational AI, ethical considerations including the collection of learner data, surveillance, and privacy are taken into consideration. We look at chatbots as one instance of AI-driven language learning technology. Of course, there are many more, including automated writing evaluation, intelligent tutoring systems, and machine translation to mention a few. However, a thorough analysis of them is outside the purview of this article. The goal of this study is to examine a platform for artificial intelligence that may be used for teaching and transmitting English.

**Keywords:** - Artificial intelligence, English language, English teaching skills, Chat GPT, Bing's Sydney, and Google Bard hold an ELT classroom.

**Introduction:-** We are changing how we live, work, and learn because of the "4th Industrial Revolution's rapid advancement of technology and digital applications. The development of



artificial intelligence (AI) technologies has received more attention because of computational creativity in artificial intelligence (Cheng & Day, 2014). Many artificial intelligence technologies have been put into use to help computers become more creative. According to Rahman (2009, p. 343), artificial intelligence (AI) develops software that filters knowledge and performs other independent tasks like computing or student search. Computer systems and other computerized technologies are considered "intelligent" when they operate and respond similarly to how the human brain does (Karsenti, 2019). Machine intelligence (MI) is another name for artificial intelligence (AI) (Mehrotra, 2019).

Through the inherent intelligence exhibited by people, the algorithm can forecast human intelligence. In other words, AI aims to improve computer task execution by incorporating human intellect. According to Mehrotra (2019), artificial intelligence (AI) is a field of computer science that focuses on the analysis and creation of intelligent devices and software. It is the science of programming a machine to think and act just like an intelligent human being. Intelligence is the cornerstone of AI technology (Wang, 2019). Whitby (2009) asserts that AI seeks to understand intelligent conduct in humans, animals, and machines. AI is made up of the terms "artificial" and "intelligence" (Ahmet, 2018). The term "artificial" refers to something that is imitated but not fraudulent in the sense of being untrue. While "intelligence" can take the place of real things because the former has higher features in a certain situation. The phrase "intelligence" is quite complicated. It encompasses a variety of behaviors, including planning, consciousness, emotional awareness, self-knowledge, and creativity.

## **Discussion**

### **How is AI used in the study of languages?**

Language learning apps that use AI are more practical, individualized, and efficient. Apps provide students with remote access to content and let them participate actively in the learning process. They are frequently used in eLearning courses. Like how the growth of online education revolutionized the study of languages, advances in AI technology herald a new turning point. Since AI makes a variety of practical functions in apps and programs possible, language learning with AI is becoming increasingly popular.

### **Language machines**

Many people think that you need to interact with native speakers to properly appreciate the quirks of a language. However, artificial intelligence (AI) models increasingly accurately mimic genuine speech and conversations. A chatbot for language learning can reply to messages with customized, pertinent information. Chatbots allow language learners to practice conversational skills without the stress that comes with speaking to a live person.

### **Automated translation**

Artificial intelligence (AI) tools that aid in foreign language learning and translation quality include neural machine translation. Students can detect and correct errors in the machine-translated text using a technique known as machine translation as a faulty model. In the end, this enables pupils to have a deeper understanding of the language and enhance their vocabulary, writing, and comprehension skills.

### **Individual textbooks**

Because everyone learns differently and at a different rate, it is unrealistic to expect everyone to use the same textbook and achieve the same level of success. Based on individual achievement, personalized textbooks adjust to the needs of the students. For teachers,



customizing textbooks is quite valuable. An AI system can create textbooks for a particular school, course, or set of students when teachers upload content into it.

**Methodology:-** By conducting in-depth interviews and completing a literature review, this research was conducted using a qualitative methodology. It's library research here. It is research that is conducted through the collection of data, scientific writing that focuses on the research, the gathering of bibliographic data, or a study that is conducted to address a problem and is founded on a critical and in-depth analysis of pertinent library materials. Being face-to-face with the text is one of the qualities of library research (Zed, 2004, p. 4). To establish a theoretical framework for the problem at hand, this analysis will consult several reference books or journals as well as the results of related earlier research.

Books, journals, and websites that are related to the researcher's chosen topic are the sources of information used as the basis for this study. Several publications and periodicals that are relevant to this research topic serve as sources of research data. The data collecting technique used in this investigation is documentation, which is looking for information about objects or factors in books, journals, papers or posts, newspapers, and other sources. However, in this study, the concepts and hypotheses were evaluated based on the available literature, particularly many publications that were published in different scientific journals. The writer then assesses the data so that a conclusion can be reached when all the material has been gathered. The writer employs content analysis approaches to obtain accurate and accurate conclusions when studying the data. As this data needs a descriptive explanation, content analysis is a form of study that involves a detailed investigation of the written materials' contents.

### **Findings and Discussion:-**

The potential is enormous, but when artificial intelligence is brought up in the context of education, it can be extremely frightening. The term "AI" often refers to the gathering and application of data. Although this is the case, my goal in this article is to demystify this science-fiction setting and outline the most useful applications of AI for language teachers in ELT classrooms. One of the main reasons I started blogging was to show my other teachers how technology, especially the utilization of readily available digital resources for active collaboration, can improve the learning experience for students.

When teachers understand and incorporate artificial intelligence, they face several problems, according to a recent UNESCO publication. The subject of today's blog will be of them, "Leveraging AI to enhance education and learning" (UNESCO, 2019), which speaks specifically to how instructors can employ AI in the classroom. Thanks to the technologies that now include integrated AI, we can give our kids some responsibility and entrust them with a task that would typically be managed by the teacher. We are promoting their independence and encouraging them to take a more initiative-taking approach to their education.

Students and teachers of ELT and EFL at all proficiency levels face a constant challenge in developing understandable pronunciation. Fortunately, there are free tools out there that can help both teachers and students in this area. Pronunciation checks, transcriptions of spoken words, and voice commands can all be performed. If we briefly mentally travel back in time, we swiftly realize that the reality we are currently experiencing was previously only seen in science fiction films.

For the system to comprehend and record the student's voice, English language options must be enabled. As one of the most innovative information systems in the world, artificial intelligence technology investigates how a robot can conduct intelligent work that only humans



can carry out (Han, 2019). Additionally, when technology advances, it makes certain tasks easier for us to complete, including teaching and learning English. The topic of artificial intelligence technologies comes up frequently in public discourse. Language learning now has a lot of new opportunities because of technology (Fryer & Carpenter, 2006).

According to Luo & Cheng (2020), artificial intelligence (AI) technologies are the driving force behind foreign language instruction. Artificial intelligence (AI) technology, among other things, can effectively address issues including short classroom hours, restricted space, scarce resources, and a boring measurement system. According to Thornton (2007, p. 1), all Artificial Intelligence (AI) programs and technologies can be stated to be solving problems in some way. It means that this dynamic problem-solving and human-like ability to discern behavior and purpose are both part of the large field of science known as artificial intelligence (AI). (Cobar, 2019). AI aims to develop intelligent computers that behave and think like people, capable of simulating intelligence and making decisions through a process akin to human reasoning (Salvaris et al., 2018, pp. 3–4).

Multiple data sources, repeated processing, and clever algorithms are the building blocks of artificial intelligence. As a result, the software can automatically notice patterns or other elements in the data. When humans use a language to communicate with one another, they may do so effortlessly or in a way that is incredibly complex and still poorly understood (Nilsson, 2014). The development of a computer system that can generate and decipher English language fragments has thus proven extremely challenging. The fact that language has developed among intelligent creatures as a tool of communication is one reason for the difficulty. 218 The growth of digital platforms has made it simpler to teach and study English. The use of artificial intelligence (AI) technology has made it possible to advance English language proficiency. Combining digital and language literacy can help people become more globally competent. The text processing of a language serves as the foundation for AI. The language he learned became increasingly precise as AI became more advanced.

Thus, utilizing AI technologies would improve the teaching and learning of foreign languages. 2020 (Yingsoon). AI contributes to the dissemination of varied information and enhances the effectiveness of English learning. These students can better understand what the teacher has presented because there are numerous forms of learning technology available. Even pupils can easily learn without having to speak with their teachers personally. Both English educators and students/learners have a wide range of options for language learning software based on Artificial Intelligence (AI) technology. The following are some instances of AI technology that can be applied to learning English:

### **Making use of Google Assistant**

Why not do a Google Assistant interview with your students? Simple inquiries like "What's the weather like in.....?" and "What time is it in.....?" can be made to the assistance. This is a fantastic technique to gauge how understandable their pronunciation is. Each student can ask the virtual assistant a question in turn after the teacher has set a model or query. Encourage them to make notes, and after the assignment, request that they present their results to their peers in other groups.

### **Instruction practice using Chat GPT in English Language Teaching**

Teachers are highly qualified professionals and industry qualifications have been specifically created to teach them in identifying learners' requirements and constructing engaging lessons to suit those needs. Effective planning is the foundation of such an approach, and teachers spend years honing this skill. However, Chat GPT can quickly plan lessons. However, the



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ramifications for our sector go far beyond lesson planning. Additionally, Chat GPT can communicate with students in real-time and correct their grammatical errors. Therefore, the software has the potential to be an excellent tool for learners wishing to enhance their writing or general language abilities because it provides them with a companion with whom they can communicate at any time and to whom they can ask any questions they may have about grammar or vocabulary. It makes sense for professors to start using that potential, such as by assigning homework that uses the learner's new personal tutor.

### **Broader queries**

Naturally, Chat GPT also raises more existential concerns regarding language instruction and acquisition. The software can write original writings in the language of your choice and easily translate texts between languages. Is learning languages still useful in the age of such potent AI? Will future generations ever struggle to understand one another or will speaking different languages just become second nature? Only time will tell, but I have a suspicion that honest communication, with all the intellectual effort that it entails, will always be in demand since we can only advance as people when we challenge ourselves.

Although AI may be adept at the technical aspects of communication, it is unlikely to be able to replicate our emotions and personalities, which are after all distinctive to each of us. Despite this, the ELT sector will surely need to change to adapt to a new world where AI is a key component of teaching, learning, and linguistic mediation. It would be wise for us to start actively thinking about the role AI will play in the future so that we are ready with answers to the issues it brings up and that its power is eventually used to support our business rather than de-professionalize or replace it.

### **Challenges of language learning**

Learning a new language can be challenging, especially when conventional teaching techniques have drawbacks that make it more difficult for students to achieve. The content in textbooks, films, and audio recordings is helpful, but personalization is missing. On occasion, this could lead to students moving on to the next level before fully grasping the subject. There are drawbacks to tutorial education as well. Language learners frequently experience anxiety when speaking a new language, even though a teacher or other expert may customize the curriculum for each student. Speaking in front of classmates at school might worsen this fear in students who might otherwise be effective. These problems can be fixed by AI technology. Apps and online resources for language study can be used privately and at a speed that works for each student. A lot of applications and programs, however, take a one-size-fits-all approach and don't tailor the timetable, goals, or content to each learner.

### **What advantages does AI have for language learning?**

The advantages of AI in language acquisition are among those of machine learning in education that are becoming increasingly obvious. There is a chance that AI algorithms will advance eLearning in all areas. These solutions can be used by businesses to train their staff. Individual language learners can study whenever and wherever they want using AI. It can be used in schools and colleges to expand students' opportunities. More significantly, AI has already demonstrated its value in languages. Just a few advantages are listed below:

#### **Delivering immediate feedback**

With conventional teaching techniques, feedback frequently takes a while to come. It can take a while for teachers to provide results after reading and grading the work of many pupils. Feedback from artificial intelligence in language acquisition occurs very immediately. Platforms powered by AI automatically grade exams and assess essays after submission,



highlighting mistakes and providing solutions. As a result, students may act right away to fix their mistakes and keep from making them again. AI language learning tools also assist teachers in identifying curriculum gaps. They can point out misleading questions, demonstrate how they can be made better, and determine who needs more instruction.

### **No concern for failure**

Making mistakes is a necessary component of learning. Unfortunately, the process itself can be badly impacted by the dread of making mistakes. Students who are embarrassed by their errors, knowledge gaps, or poor grades may stop studying. AI in language learning does not chastise students, humiliate them in front of their peers, or threaten punishment. AI merely assesses students without opining on their linguistic aptitude.

### **Redefining Teachers' roles**

Even the most technologically advanced bots cannot completely replace human teachers. AI can modify the duties of teachers, though. Teachers will have more time to coordinate learning processes and coach students since AI algorithms can swiftly and effectively manage grading, paperwork, and other tedious administrative activities. Teachers that are adept at technology may also study data gathered by algorithms.

**Conclusion:-** There are strong signs that methods of teaching and learning, as well as the educational technologies we employ, may undergo meaningful change because of AI's ongoing growth and evolution. AI technology tools combined with teacher direction and creativity are an effective way to support student's growth in their language learning process. Students notably benefit from chatbot use in education since chatbots offer personalized content on a range of subjects. Chatbots are essential for AI language learning. They are good examples of deep learning since they learn the speech and text patterns of users over time. A chatbot provides a level of personalization that other teaching techniques do not by imitating features of a human tutor's function, such as through engaging in interactive dialogues.

The use of AI in education improves everyone's ability to learn. AI significantly speeds up language acquisition by altering how users and teachers impart knowledge. With personalized instruction, immediate feedback, and needs-based customization, students will thrive. Language bots, machine translation, and personalized textbooks, meanwhile, facilitate the teacher's job. However, successfully utilizing AI tools requires more than just instructing students to download and use an app. For the best solutions to be developed and implemented, human input from specialists is necessary. You can collaborate with an AI software development company to create a smart instructional app that is specifically catered to the requirements of your business. Develop instructional tools that will propel your business, school, or online learning programs into the future by consulting with an expert organization.

**Results:** The results of this study demonstrate that artificial intelligence technology can be applied to enhance students' English learning.

**Limitation:** The research's flaw is that it doesn't look at how much AI is influencing students' English learning.

**Suggestion:** It will be examined in further detail to see how far AI can help students' English abilities. Robots with intellect on par with or even beyond that of humans are what artificial intelligence seeks to create. Natural language processing, vision, reasoning, moving, and manipulating objects, knowledge, and learning are just a few of the things that artificial intelligence is predicted to be able to do that will make life easier for humans. This complex device's creation aims to shorten working hours so that tasks can be completed more quickly. Artificial intelligence makes human decision-making and task completion more affordable.



With the growth of digital platforms, learning English has gotten simpler. The development of computer and mobile technologies will open new possibilities for the use of artificial intelligence and for extending capabilities to more individuals worldwide. A crucial component of digital learning technology is personalized material. We now have a large data and artificial intelligence-based adaptive system. Depending on each user's needs and schedule, we may decide the best way to learn English.

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