Artificial Intelligence (AI) – Tools for English Language Learning

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Abstract- **The rapidly emerging field of artificial intelligence (AI) and its potential to transform English language instruction are examined in this article. Technical complexity, data bias, and the possibility of replacing human connection are some of the issues that artificial intelligence (AI) faces, even as it offers great opportunities for personalised learning, immersive practice, and adaptive evaluation. In order to educate language learners, educators, and developers on the responsible and successful integration of AI into English language learning techniques, the essay will look at both the potential and dangers of AI in this field. In the end, using AI technology enhances language proficiency and communication. It also facilitates quick and easy English language learning.**

Keywords: **Artificial intelligence, English language learning, personalized learning, adaptive learning, AI challenges, AI applications, language education.**

INTRODUCTION

The use of technology in contemporary society has become inevitable. Technology has changed people's lives and had a significant impact on working, learning, and communicating. The emerging of innovations improves the practicality as well as the effectiveness of our work and hobbies. Artificial intelligence, or simply AI, is a term that has come into use more recently to describe a technical development. It is becoming more and more popular as a tool to mimic human behavior. Artificial intelligence (AI) systems enable learning through the use of instructional tools like bots. The field of education has to evolve with the times to keep up with technological advancements in order to raise educational standards. This is especially true when it comes to information and communication technologies.

Today, the digital learning content is possible only by Artificial Intelligence. These days, thick textbooks can be condensed into shorter, more easily readable and comprehended content for students, including study guides, topic summaries, or brief notes. AI as a pillar of the industrial revolution 4.0 is necessary to support the learning process mediated by technology.

Artificial intelligence is the process of simulating human thought processes and programming machines to exhibit human-like behaviours (AI). This is also known as cognitive tasks, which refer to the ability of machines to learn on their own using preprogramed data and information. It is also possible to interpret artificial intelligence. Artificial Intelligence (AI) is a branch of computer science that tries to make computers as good as humans at tasks. Without our knowledge artificial intelligence plays a vital role in our daily lives. Artificial intelligence was implemented as an advantage in several applications.

"Artificial intelligence technology" is technology that enables robots to reason, evaluate potential actions, and draw conclusions that are similar to those drawn by humans. Large-scale development is presently underway in the field of artificial intelligence (AI) with the goal of developing a system that can mimic and eventually replace human labour. According to the definition, artificial intelligence was developed so that programmes and robots might behave like people. Obviously, it will make human labour easier.

AI has included in variety of digital platforms. It is utilised to facilitate human tasks. AI has been used by a number of tech businesses, including Microsoft, Google, Amazon, and Facebook.

Machine learning and human-like logical learning are now possible because of AI technology. It simplifies extraordinarily complex tasks performed by humans. (Fitria, 2021a). It is one technology that has recently drawn interest. This technology is crucial for enabling a number of professional tasks, especially in the field of education. Another application for artificial intelligence is in education. Higher education professionals are more equipped to comprehend the needs of their students (Fitria, 2021b).

This article explores the difficulties and uses of artificial intelligence (AI) in the context of learning. It emphasises how AI may be used to tailor learning programmes, encourage active practice, and give prompt feedback, but it also addresses the ethical issues and negative effects of AI.

FINDINGS AND DISCUSSION

Artificial Intelligence and English Language Teaching

In Wang's (2019) study, "Research on Artificial Intelligence Promoting English Learning Change," he discovered the following connections between AI and English classes:

- The English learning environment has been completely transformed by artificial intelligence. The captivating atmosphere that artificial intelligence has built for learning English. The development of new AI made the learning of English more stereoscopic. The logical interpretation of voice, image and text made learning easier. It uses a human-machine interface to involve students in the learning process. The adult learners utilize all of their senses to practise English skills which can also relate to their current proficiency of English. This creates a highly personalised learning environment of the learners.

- Artificial intelligence made learning the English language easier. It has created a great and realistic platform for the purpose of teaching and learning. Students can more efficiently understand the language and utilise English terminology in both written and oral communication with the aid of teachers and artificial intelligence. The students can gain knowledge from various English-speaking countries and it will significantly motivate the students.

- In English classes, the students' practical skills were improved using artificial intelligence. It is the newest hottest topic in social science technology in the market. The teachers and students should comprehend science and technology for English Language Teaching (ELT) and find timely solutions to apply it in classroom. As a result, AI helps students learn English more practically.

ADVANTAGE OF ENGLISH LANGUAGE LEARNING BASED ON AI:

Learners can benefit from a number of fascinating advantages when using AI-based English language learning programmes. These are some of the main advantages.

Personalized Learning: AI algorithms can evaluate each student's individual learning preferences, areas of strength and weakness, and learning methods. They can also customise study materials and activities. They can learn at their own speed and concentrate on the most needed areas.

Adaptive learning: Based on user performance, AI-powered platforms can modify the topic focus and degree of difficulty, resulting in a dynamic and responsive learning environment that maximises knowledge acquisition. Students stay interested and involved because of the on-going feedback and adaptive challenges.

Immersive practice: Learners can practice communication skills in simulated real-world contexts by using interactive, context-rich scenarios offered by chatbots driven by artificial intelligence and virtual reality simulations. Through this comprehensive experience, students improve their spoken English confidence and fluency.

Automated feedback: AI systems are capable of providing prompt, in-depth feedback on writing, grammar, vocabulary, and pronunciation. As a result, students can improve their language skills while on the road without having to wait for feedback from their teachers.

Accessibility and Flexibility: Learners who are spread out geographically or have hectic schedules may find that AI-powered language learning apps and platforms provide them with flexible and reasonably priced learning alternatives. They make high-quality educational resources available to everyone, everywhere, at any time.

Enhanced motivation and engagement: AI-powered programmes frequently include gamification components to make learning more enjoyable and engaging, such as leaderboards, badges, and points. Students may be inspired to learn more and persevere in the face of difficulties by this.

ARTIFICIAL INTELLIGENCE TECHNOLOGY IN ENGLISH LANGUAGE LEARNING

For the effectiveness of the English Language Learning Process, AI shared a variety of facts for communication. The accessibility of several educational technology facilitated pupils' understanding of the teacher's message. Without constant interaction with their teachers, children can still learn rather readily. The plethora of Artificial Intelligence (AI) – based language learning programmes can be used both by the English Teachers and Students/Learners. Here are several instances of AI technology that can be applied to the study of English language acquisition:

Google Translate: Google Translate has the capability to translate web material. Frequently used vocabulary, phrases, sentences and paragraphs can also be translated by using this tool. You can use Google Translate to verify the spelling of a term when you notice an error. Verifying English word spelling and learning foreign language pronunciation are two excellent uses for the Google Translate service. The Google Translate can be utilized by the students who wish to study English for free.

Text to speech (TTS): Text-To-Speech (TTS) is a technology that translates computer-generated text into audio pronunciation. The audio pronunciation can be modified for tone and speed, and the output format can be saved as an audio file. Particularly in the English lab, TTS technology can enhance course content and accelerate instruction for courses pertaining to English. (Yudhistiro, 2016).

English Able: "English ABLE" emphasises exams to acquire English Grammar which gives a new learning environment for English Language Learners (ELLs). English ABLE generates new sets of improved assignments using a TOEFL CBT job library.
is a learning environment that emphasises exams to help English language learners (ELLs) acquires English grammar. Using a TOEFL CBT job library, English ABLE generates new sets of improved assignments aimed at certain ELL component abilities. Learners are also given packages to help those master particular parts of English grammar in a flexible, scaffolded learning environment.

Orai: Orai is an ideal choice for giving speeches in public. It can be benefited by the teachers as well as provide help for the teachers in public speaking. This application receives great reviews from people and it is also considered to be the fun filled application. It is easy to access and help to develop the oratory ability of the learner in rapid. There are some features offered by this application. They are Lessons, Practice, Progress and Recordings. These features are intended to improve the speaking ability of the learners. To improve these speaking abilities, you can study each of the key elements several times because they all contain engaging material.

Elsa: This application uses speech recognition and artificial intelligence (AI) to help you pronounce words in English more accurately. An software called ELSA (English Learning Speech Assistant) Speak uses speech recognition and artificial intelligence to help users learn the language. With the help of this technology, users can learn in both directions. For instance, if they pronounce a phrase or sentence correctly, the system will analyse it and offer suggestions for improvement.

Chatbot: The application named Chatbot serves as a discussion buddy for the learners of English. It involves both verbal and writing practise, which helps the learner to develop their proficiency in communication. To support the chatbot application's purpose of acting as a medium for English conversation instruction, two features are needed: a grammar error correction tool and a feature that allows users to keep a daily record. The answers provided were descriptions of the problems, recommendations for word or phrase replacements, and the locations of the faults. This is an attempt to reduce the number of sentence construction errors made by the user.

Duolingo: Duolingo is an online language learning platform. With its game-like approach to language learning, Duolingo is an application that matches words and fills in sentence gaps. The goal of this approach is to teach the words, phrases, and grammar that go into a sentence.

Neo:
Neo is an integrated learning system based on smartphones that aims to improve English proficiency. It is designed to adapt to changes in speech recognition and artificial intelligence technologies. Nexgen Neo is an innovative way to learn English. Neo is an easy-to-use, flexible, and practical tool for people that lead active lives. Neo gives users the same advantage of having a professional personal tutor to help them learn English more quickly. Users will use the powerful speech recognition feature of the neo Study application to educate themselves to pronounce words correctly until they can speak English fluently.

CHALLENGES OF AI IN ENGLISH LANGUAGE LEARNING:

Technical complexity: The complicated and opaque algorithms that underlie AI technologies may require specialised user prompts and a high level of technical literacy to be used to their full potential. This may make learning settings less accessible to some students and make it more difficult to execute in a successful manner in various learning contexts.

Data bias: Due to the fact that AI systems primarily use training data, biases and preconceptions could be strengthened. Biased datasets can lead to dangerous inclusion in the learning process, inconsistent feedback, and the reinforcement of discriminating language patterns.

Over-reliance on technology: Using artificial intelligence (AI) tools excessively can minimise the value of interpersonal communication and group learning. The cultivation of critical thinking, cultural awareness, and emotional intelligence—aspects that AI cannot adequately handle on its own—remains dependent on the role of qualified educators.

CONCLUSION
By creating robots with intelligence comparable to or greater than human intellect, artificial intelligence aims to create intelligent machines. Anticipated capabilities of artificial intelligence include natural language processing, vision, reasoning, object manipulation and movement, knowledge acquisition, and learning. These abilities are intended to facilitate human life in many ways. Reduced working time allows for more efficient operations, which is why this complex machine was created.
Artificial Intelligence is more affordable in human decision-making and task completion. Great gratitude need to be shown for the growth of digital platform which mad the learning of English simpler. The artificial intelligence can be used more widely and it can provide more capabilities to a large number of people worldwide through the use of

emerging technologies such as computers and smartphones. Thus the best method of learning English Language in this current world is to use Artificial Intelligence.

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