ENGLISH LANGUAGE TEACHING

Role of Artificial Intelligence in English Language Teaching

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Abstract

Artificial Intelligence (AI) has become increasingly prevalent in education due to ongoing technological advances, with a significant impact on language teaching. This essay explores the role of AI in English language teaching (ELT) and its potential to enhance student outcomes. The research explores contemporary studies on the application of AI in education, focusing on language acquisition and skills enhancement. The research examines various artificial intelligence (AI) platforms and resources for English language learners, including virtual language assistants, smart tutoring systems, and language learning applications.

Keywords: artificial intelligence; language assessment; content generation; eLearning

1 Introduction

Artificial intelligence (AI) is a technology that, like other technologies we use daily, may eventually become visually invisible in various human jobs. As a result, humans may naturally become dependent on AI. Because artificial intelligence (AI) can simulate human intelligence processes using machines, particularly computer systems, AI applications in language learning and teaching are significant today. This study uses an analytical descriptive methodology to examine and evaluate the literature, describe artificial intelligence (AI), and discuss the methods used to apply AI in English teaching and learning. It addresses the following topics: AI techniques and their appropriate applications in English teaching and learning; their efficacy and usefulness; and the prerequisites for implementing them in these domains. This paper focuses on the applications of AI in language learning and teaching.

2 Platforms for adaptive learning

In the classroom, artificial intelligence (AI) has the potential to be a very useful tool, particularly for English language learners. Students are increasingly using this technology to enhance their language proficiency and gain a deeper understanding of the language. AI can assist pupils in many areas, such as reading comprehension, vocabulary, pronunciation, and grammar. It also aids in vocabulary development, speaking practice, and understanding colloquialisms. Students can have a better learning experience and become more engaged with the language by using AI.

3 The role of AI in language assessment

AI contributes to the effective communication of various types of information and enhances the English language learning process. The availability of a range of educational technologies helps

students understand the teacher's explanations. Even when not in direct contact with their teachers, students can still learn easily.

Building on these benefits, there are many language learning applications based on Artificial Intelligence (AI) technology that can be used by both English instructors and students or learners. The following are some examples of AI technology that can be applied to English language learning:

3.1 Google Translate

The primary use of Google Translate in teaching and learning English is for translation purposes. It is an online translator. Students can use it to translate words, phrases, sentences, and paragraphs from Indonesian to English or English to Indonesian, which are frequently used in translation exercises between Indonesian and English. Google Translate can also be used to check the spelling of words that may appear incorrect. It is quite helpful for verifying English spelling. Google Translate is also a useful tool for learning how to pronounce words in foreign languages. Students who wish to learn English for free, especially pronunciation, can benefit from using Google Translate.

3.2 Orai

Orai is an ideal choice for giving speeches in public. Lessons, practice, progress tracking, and recording are some of the features offered by Orai that are intended to help students improve their speaking abilities. Each of the main features contains engaging material that can be explored to refine these speaking skills. Within the 'Lessons' section, individuals who wish to practice speaking can use the provided content to learn and hone their speaking abilities.

3.3 Chatbot

Chatbots have the potential to enhance individuals' conversational abilities by promoting fluency and confidence in using English in daily contexts. Another noteworthy benefit is the instant feedback they provide, which immediately addresses mistakes in grammar, vocabulary, and pronunciation. Error identification and correction can be done more efficiently thanks to this rapid correction technique. By presenting new terms in context and providing practice exercises for reinforcement, chatbots contribute to vocabulary growth. Certain chatbots go beyond language proficiency by integrating cultural elements into discussions, assisting students in understanding cultural nuances and backgrounds. Chatbots are useful tools for measuring learners' progress and observing how they develop over time. Their assessment and progress tracking features can provide significant insights into areas that may need more attention.

4 Content creation and curation

Large volumes of data may be swiftly and precisely analyzed by AI algorithms, making it easier to find the most valuable and pertinent material for a given audience. As a result, content selection and delivery at scale are possible without requiring the same amount of time and energy as manual curation. AI has a role in both content generation and curation. Large volumes of data can be analysed to find current and relevant resources for language learners. AI can also help create quizzes, language exercises, and other instructional materials.

Over time, new words, idioms, and expressions are added to languages as they evolve. As a result of AI's constant monitoring of linguistic developments, new linguistic components can be quickly incorporated into instructional materials. This ensures that language learners are exposed to modern

language usage, equipping them for communication in everyday situations. The accuracy and quality of educational information can be preserved with the help of AI. Text can be improved by using Natural Language Processing (NLP) algorithms, which can identify possible mistakes or ambiguities. Furthermore, AI systems can assist with peer review procedures, promoting collaborative content development in the academic community.

5 Virtual reality (VR) and augmented reality (AR)

Not every learner receives instruction in their mother tongue or a language they fully understand. Comprehending what is being taught becomes more challenging when there is a language barrier. Virtual reality has demonstrated its ability to offer a smooth educational experience for those attempting to acquire a second language. Students can understand and learn material more quickly thanks to VR and AR's ability to translate or transcribe teachers' courses. Students often hesitate to speak or ask questions when learning online because they fear mispronouncing words or sentences. VR can make interactions simpler and more adaptable.

E-Learning has been enhanced by VR and AR in several ways. They help students better understand complex subjects by creating an immersive and interactive learning environment. VR helps students overcome many common learning obstacles, making the process simpler and more engaging. In general, global knowledge-based practices will be improved by VR and AR.

6 Data analysis for personalized instruction

Data analytics helps identify pupils who require extra assistance when learning a language. Analyzing student behavior, attendance, and grade data is helpful. Teachers can recognize pupils who might be at risk of falling behind. With this data, specific interventions and assistance can be provided to these children to help them succeed. It enables the development of individualized lesson plans for each student according to their specific needs.

7 Gaming and interactive education

The field of education is one in which gamification is particularly useful. Just as teachers may find it challenging to motivate their pupils, there are instances when students find it difficult to motivate themselves. Gamification increases a student's desire to study and learn in a more engaging and dynamic manner. With the help of artificial intelligence (AI), gamification components can be added to language learning applications, increasing student motivation and engagement. Language abilities can be dynamically and enjoyably reinforced through interactive scenarios and games. It provides more motivational options. By making the experience engaging and enjoyable, it increases participation. Students can take personal responsibility for their education and are free to attempt tasks and fail until they succeed, without facing serious consequences.

8 Conclusion

The growth of digital platforms has made learning English easier. Advances in computer and mobile phone technology will present opportunities for augmenting the capacities of a larger global population and expanding the application of artificial intelligence. Digital learning technology also relies heavily on personalized material. We now have access to artificial intelligence and big data-

driven adaptive systems. We may choose the best English language learning method based on each user's needs and availability.

Though AI has the ability to completely transform the way English is taught, it is vital to remember that human teachers are essential in providing context, emotional support, and a personalized touch that AI cannot entirely duplicate. The best language learning settings are probably those that blend AI's advantages with the knowledge and compassion of human teachers.

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