Role of Artificial Intelligence in English Language Teaching

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ABSTRACT

Artificial Intelligence (AI) has become more widely used in education as a result of the ongoing advancements in technology, and this has had a significant impact on language instruction. This essay examines AI's function in English language education (ELT) and how it might improve student performance. The study examines recent research on the use of AI in education, with an emphasis on language learning and competence improvement.

The study covers a range of artificial intelligence (AI) platforms and tools for English language learners, such as virtual language assistants, intelligent tutoring systems, and language learning apps. It explores the benefits of AI in tailored education, flexible learning paths, and instantaneous feedback, according to students' various requirements and learning preferences. Stakeholders can optimise the incorporation of technology in language learning environments and eventually contribute to more inclusive and effective language education programmes by having a thorough awareness of the rapidly changing landscape of artificial intelligence in education.

Key words: artificial intelligence, language assessment, content generation, eLearning

Introduction

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

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 using artificial intelligence (AI) technology more and more to enhance their language proficiency and gain a deeper knowledge of the language. Artificial intelligence (AI) has the potential to assist pupils in many areas, including reading comprehension, vocabulary, pronunciation, and grammar. Additionally, it can aid in pupils' vocabulary growth, speaking practice, and comprehension of colloquialisms. Students can have a better learning experience and become more involved with the language by using AI.

The Role of AI in Language Assessment:

AI contributes to the effective communication of a variety of information and enhances the English language learning process. The availability of a variety of educational technologies facilitates these students' comprehension of the teacher's explanations. Even when they are not in direct contact with their teachers, students can still learn easily.

There are so many choices of language learning applications based on the technology of Artificial Intelligence (AI) which may be used by both English instructors and students or learners. The following are a few instances of AI technology that can be applied to English language learning:

1. **Google Translate**

Google Translate's primary use in teaching and learning English is for translation purposes. It is an online translator. It can be used by students to translate words, phrases, sentences, and paragraphs from Indonesian to English or English to Indonesian that are frequently used in translation exercises between

Indonesian and English. We can use Google Translate to verify the spelling of words that appear incorrectly. It is quite helpful for verifying spelling in English. One useful tool for learning how to pronounce words in foreign languages is Google Translate. It can be used by students who wish to learn English for free, particularly how to pronounce words.

2.   Orai

Orai's ideal choice for giving speeches in public. Lessons, practice, progress, and recording are some of the features offered by Orai that are intended to help students improve their speaking abilities. There is intriguing material in each of the primary aspects that can be examined to refine these speaking abilities. Within the 'Lessons' section, individuals who wish to practice speaking might use the offered content to learn and hone their speaking abilities.

3.   Chatbot

Chatbots have the potential to enhance individuals' conversational abilities by promoting fluency and confidence in using English in daily contexts. One more noteworthy benefit is the instant feedback they provide, which instantly addresses mistakes in grammar, vocabulary, and pronunciation. Error identification and rectification can be done more efficiently thanks to this quick correction technique. By presenting new terms in context and providing practice exercises for reinforcement, it contributes to vocabulary growth. Certain chatbots surpass language proficiency by integrating cultural elements into discussions, assisting students in comprehending cultural subtleties and backgrounds. Chatbots are useful tools for measuring learners' progress and observing how they change over time. They can provide significant insights into areas that may need more attention due to their assessment and progress tracking features.

Content Creation and Curation

Large volumes of data may be swiftly and precisely analysed by AI algorithms, which makes 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 needing 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 by it to find current and pertinent 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 change. As a result of AI's constant monitoring of linguistic developments, new linguistic components can be quickly incorporated into instructional materials. This guarantees 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 spot possible mistakes or ambiguities. Furthermore, AI systems can help with peer review procedures, which promotes cooperative content development in the academic community.

Virtual reality (VR) and augmented reality (AR)

Not every learner uses their mother tongue or a language they fully comprehend for instruction. Understanding 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 comprehend and learn material more quickly thanks to VR and AR's ability to translate or transcribe teachers' courses. Students frequently hesitate to talk or ask questions when learning online because they are afraid they may pronounce words or sentences incorrectly. VR can make interactions simpler and more adaptable.

eLearning has been enhanced by VR and AR in several ways. They aid students in better understanding complex subjects by creating an immersive and interactive learning environment. VR helps students overcome a number of typical learning obstacles, making the process simpler and more interesting. In general, worldwide knowledge-based practices will be enhanced by VR and AR.

Data Analysis for Personalised Instruction

Data analytics helps identify pupils who require extra assistance when learning a language. Analysing student behaviour, attendance, and grade data is helpful. Teachers are able to recognise pupils who might be in danger of falling behind. With this data, specific interventions and assistance can be given to these children to help them achieve. It develops individualised lesson plans for every student according to their specific requirements. It can be used to identify the strengths and weaknesses of each student and then design learning programmes that are tailored to meet their specific requirements. Large datasets produced by students interacting with learning platforms can be analysed by AI. This information can be used to spot trends, evaluate students' progress in their studies, and alert teachers to areas in which pupils might require more help.

Gaming and Interactive Education

The field of education is one where gamification is especially useful. Just as it might be challenging for teachers to motivate their pupils, there are instances when students find it difficult to motivate themselves. It 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 engagement. Students can take personal responsibility for their education and be free to attempt things and fail until they succeed without facing serious consequences.

Conclusion

The growth of digital platforms has made learning English easier. Advances in computer and mobile phone technology will present prospects for augmenting the capacities of a larger global population and augmenting the application of artificial intelligence. Digital learning technology also relies heavily on personalised material. We now have access to an artificial intelligence and big data-driven adaptive systems. We may choose the best English language learning method based on each user's demands and availability.

Though AI has the ability to completely transform the way that English is taught, it's vital to remember that human teachers are essential in providing context, emotional support, and a personalised 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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