USE OF ARTIFICIAL INTELLIGENCE IN TEACHING AND LEARNING ENGLISH LANGUAGE

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Abstract:
Artificial Intelligence is a human intelligence simulation based on computers and designed to function as human beings. AI is one of the drivers of the 4.0 industrial revolution to facilitate education in teaching and learning. This research is focuses on the role of AI in English Language Teaching and Learning and to importance of AI technologies in ELT. The result shows that AI offers a good learning atmosphere for English learning. It has considerable ability to create a personalized atmosphere in which learners use their senses to concurrently exercise English skills depending on their current level of English, vocational needs, or interests. AI provides a real simulation dialog platform and practical skills such as spoken as well written English. It increases the practice of students" capacity and optimizes the teaching impact of English in ELT. Learning English become easier with the development of technology. AI"s technology offers the opportunity to improve English language skills. The existence of various kinds of learning technology makes it easier for students to understand English. Many choices of ELT applications are based on AI technology that can be used by the students, teachers and professionals as well. These technologies as smart machines that think and behave like people with the ability to simulate intelligence and make decisions identical to human reasoning through a process both computers and cell-phones such as Google Translate, Text to speech (TTS), English Able, Orai, Elsa, Chatbot, Duolingo, Neo platforms, and many more.

Introduction

The industrial era has influenced everyone to be able to adapt to rapid changes. Globalization and the industrial era 4.0 have created new creativity, opportunities, and challenges such as in technology. Therefore, technology plays a very important role in conveying information in the form of text, images, and sound. The technology was created to facilitate human work and activities. One technology that is being developed intensively is Artificial Intelligence (AI). Artificial Intelligence (AI) is one of computational creativity that has increased attention to the development of artificial intelligence (AI) technologies (Cheng & Day, 2014).To gain creativity by computers, many artificial intelligence technologies have been implemented. Rahman states that artificial intelligence (AI) creates software that filters knowledge and other autonomous functions, such as computation or student search. Artificial intelligence (AI) develops "intelligent" devices that run and react to something similar to the human brain, such as computer systems (online platforms) and computerized machines (robots) Artificial intelligence (AI) is also known as Machine Intelligence. It is the intelligence that is predicted by the machine through the natural intelligence displayed be humans. In other words, AI is about adding human intelligence to the machine for task execution. According to Mehrotra Artificial Intelligence (AI) is a computer science technology that explores the analysis and development of smart machines and apps. It is the science of having a machine to think and behave like a human being who is intelligent. The key to AI technology lies in intelligence. AI studies intelligent behaviors in humans, animals, and machines and attempt to find ways.

While "intelligence" is something that can replace genuine items because the former has better qualities in a certain context. Intelligence is a very complex term. It includes different forms, such as reasoning, self-knowledge understanding, emotional awareness, preparation, consciousness, and creativity. As stated by Joshi AI may not mean designing an incredibly smart computer that solves all problems, but rather building a machine that is capable of human-like action. The purpose of artificial intelligence is to build computer software or hardware systems that demonstrate human-like thought or display features traditionally associated with human intelligence. AI as a computer system theory can perform tasks normally involving human intelligence. Speech understanding, language awareness, decision-making, and visual perception are aspects of human intelligence that can be understood by artificial intelligence. There is a demand for AI to create an expert system and to find

solutions for complex problems such as recognition or natural language processing. AI as a tutor for the language. AI offers tireless, individualized training, providing learners the large volume of feedback and scaffolding activities needed to achieve fluency, all within a low-stakes atmosphere (learners are more likely to take chances and make mistakes).

AI's big promise is that it will shorten the time it takes to develop abilities. Kaur & Gill states that artificial intelligence (AI) is a digital attempt to achieve human-level intelligence by using different computations of machines. It is a series of advanced technologies that allow humans to feel, comprehend, function, and learn from machines. It can be said that Artificial intelligence (AI) is a branch of computer science that emphasizes the ability to think and act like humans. It is helped by machines to find solutions to complex problems in a more human-like fashion. This requires borrowing human intelligence traits and then incorporating them in a computer-friendly way. Human actions such as learning, planning, making decisions, and knowing language can be done by Artificial Intelligence (AI).

Teaching and learning English also has become easier with the development of technology and digital platforms. These now offer the opportunity to improve English language skills. This means that if we have a machine for teaching English, perhaps we do not need any English teachers in the classroom, or English education. Therefore, English education need not be replaced by the Fourth Revolution. Instead of that the development of an English class model using Artificial Intelligence should work in collaboration with the English teaching and learning process. Language literacy and digital literacy are a neat combination to improve global competence. Ribeiro states that Artificial Intelligence in English Language Teaching (ELT) is the most realistic way English language teachers can use it. English is one of the common world languages which has a systematic grammatical structure. Therefore, learning English has always been substantially difficult for ESL/EFL (English as Second/Foreign Language) students Thus, the reform of English teaching and learning

can be effectively promoted through artificial intelligence machine learning, intelligent search, and natural language processing. Related to the explanation above, this research is to know the role of Artificial Intelligence (AI) and to investigate AI technologies in English Language Teaching (ELT).

1. Artificial intelligence changes the atmosphere in which English is learned. Artificial intelligence offers a good learning atmosphere for immersive English learning. Through integrating and logically interpreting information such as images, sound, and text in an intelligent device, English learning becomes more stereoscopic and visual. Students communicate with AI through the interface between man and computer, which not only improves the validity of language environments. This statement is also supported by (Zilberman, 2019) that AI has a significant ability to create a personalized atmosphere in which adult learners use all their senses to concurrently exercise English skills in conjunction with their present level of English or occupational needs or wishes.

2. Artificial Intelligence optimizes the teaching impact of English. AI will provide a real simulation dialog platform for the teaching and learning of English in English. We will help students make better use of English words, spoken English, and English writing, and develop their comprehension skills. Not only can the cultural and customs awareness of the various English-speaking countries collected in AI be used to communicate and connect with students, but it can also significantly enhance the interest of students in learning English.

3. Artificial Intelligence increases the practical skill of the students in English class. Artificial Intelligence (AI) is currently the hotspot technology material of social science within the industry. The application of science and technology in English Language Teaching (ELT) requires that teachers and students understand the ability to work the system and solve problems in time. Therefore, as AI is applied to English teaching, it increases the practical operational capacity of the students. According to Gawate (2019) in his article entitled "Artificial Intelligence (AI) Based Instructional

Programs in Teaching-Learning of English Language" states that any advantages of AI-based English language teaching and learning instructional programs are:

i. Friendly need-based instructional programs for consumers. The AI-based teaching software combines aim learners and their contextual needs. It is laid down with the learners' clear expectations and exact criteria. English language teaching-learning misleads to no endpoint without analyzing learners' needs.

ii. Qualitative contents: through Artificial Intelligence, it is possible to create qualitative teaching-learning material that operates on all levels of language such as hearing, speaking, reading, and writing.

iii. Supplementary teacher and student support system. As an external support mechanism, AI plays a critical function for students and teachers of the English language. AI, when it incorporates humanized knowledge, will do this at any time and anywhere with precise assistance. While AI-based services are built-in, the position of educators is not denied.

4. Fast feedback system: AI-based systems can be built to learn English in a variety of ways to get feedback. It can be used in AI-based instructional programs to quantify and interpret the input according to the needs of the students, such as gradation, review, cross verification, and in-depth presentation. All facets of the students' success are assessed.

5. Changing the teacher's role as a guide and director. It is difficult to change the position of the instructor as a guide and director and exclude the teacher from the method. AI-based systems only modify the teacher's role in the ELT process. Students should be led and assisted by teachers. The teacher can handle and manage such an AI-based program that needs a few manual modifications, and teachers can do it. AI-related instructional services can only be an aid in teaching-learning of the English language.

6. Connectivity globally. For some AI-related instructional systems, it gives students all the possibilities. Owing to Artificial Intelligence, spatial and time constraints are solved. It is possible to exchange knowledge from quality organizations as well as from organizations. This is truly incredible access to AI-based instructional software. With the help of facial recognition, voice recognition, and movements of the students, it allows remote access. In short, all student behaviors can be managed with AI-based applications.

7. Teaching-learning personalization in English. As per the demand and needs of the students, the course can be created. It can be student-centered in its personalization.

8. The AI-based learning platform helps learners to learn at their speed, to repeat topics, and to highlight items that they have issues with to involve them with activities, to cater to their interests, etc. For the advancement of teaching-learning English, AI-based instructional programs are tailored. It emphasizes the need-based creation of the English course material.

Conclusion:

Artificial intelligence tries to make robots that have intelligence that is similar to or even more than the intelligence possessed by humans. Artificial intelligence is expected to be able to do a variety of things that will make it easier for humans, starting from natural language processing, regarding perception, reasoning, moving and manipulating objects, knowledge, and also learning. The purpose of making this sophisticated machine is to reduce working time so that activities can be more efficient. So it make easier for language learning also when there is no one to communicate with us AI can communicate with us and correct our spoken and written language where we goes wrong. Learning English has become easier with the development of digital platforms. Computer and cell phone technology will offer opportunities to expand capabilities to more people around the world and also expand the use of artificial intelligence. Personalized content is also key to digital learning technology. An adaptive system based on big data and artificial intelligence is now at hand. We can determine the right way of learning English according to the needs and schedules of each user.

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