



USE OF ARTIFICIAL INTELLIGENCE IN EFFECTIVE ENGLISH LANGUAGE LEARNING AND ENHANCING SKILLS

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ABSTRACT

Due to rapid progress in the field of science and technology, life of man has been becoming completely dependent on it, it is insignificant and no point in discussing its vast application in every field of human activities. With this perception, to make the state of English language learning, which has been greatly influenced by the latest developments in modern information communication technologies, and its inseparable influence in the context of English language learning, this paper focus on the use of Artificial Intelligence in learning English language. with a brief note in the context of language learning skills like speaking, reading and writing. Artificial intelligence includes wide range of technologies and methods such as Machine Learning, Adaptive Learning, Natural Learning Processing (NLP), Computer Vision, Robotics, Expert Systems and Deep Learning and so on, the introduction of artificial intelligence into English language learning, has made learning easier and effective, it offers significant potential for enhancing the learning process and improving outcomes, this integrated technological development offers by providing personalized instructions, immediate feedback and also immersive language practice, the usefulness of AI is undeniable in reducing burden of teachers and improving strategies of student learning.

Key words: Science and technology, Human activities, perception, language learning, reading and writing, information and technology and artificial intelligence.

INTRODUCTION

English is the language which is used worldwide, it is considered as lingua franca, of the globe, its use is so wide and vibrant, according to some estimates, there are more than two billion English learners worldwide (Rich,2021). Since, it has been considered that, this is the language which is used moreover all over the world to keep the treasure of knowledge, primitive history, language, culture and so on, it is just to name a few domains, whereas English is a language which is employed in attaining jobs, business, tourism and higher intellectual discourse which open up the serious issues in the globe like solar system, depths of ocean, life of biggest animals, old plant species on the earth, astronomy, physics, chemistry, life sciences, nuclear energy, satellite launching, mechanism, automobile, medicine, aviation, shipping, and abstracts things, it is the language that is most widely studied to conduct

research, invention, discovers as well explorations, even thought-provoking disciplines like anthropology, philosophy, linguistics and psychology, not just severing domains of human knowledge but so to develop friendly relations like diplomacy and international relations.

It is a language which is more useful and conducive in establishing diplomatic relations, cultural exchange programme with one country to another as well in groups which are already identified as powerful blocks in globe like BRICKS, EUROPEAN UNION, G-20 NATIONS, and other business FEDERATIONS etc, the survival and the real sustenance of the world entirely depends on ecosystem and biodiversity, life saving strategies, efforts are carried out only after having a healthy discussion like saving environment, pollution control and other related global issues. which are done in the world, the countries in the world may have thousands of language, still the



discourse of life, nature, sciences and technological conclave are done in English.

English is a highly desirable language to learn not only in any one corner of the world, but it is so common in every developing economy because it is the language in which we depend moreover for rapid progress and technological development.

Therefore learning English language has become inevitable for anybody it could be an old man to a businessman, and then a worker to a professional or it could be anybody, in the recent times technology has been adopted to make learners learning experience easier and better, it is how artificial intelligence is used moreover in learning English, it is this artificial Intelligence powered tools which discusses about ICALL-intelligent computer assisted language learning as a subset of CALL (computer assisted language learning), makes learners to learn English easier in less time consuming and more effective.

As science and technology become need of an hour, smart technologies, financial technologies, marketing, e-commerce, e-banking and in automotive industries, AI has become daily part of our lives. AI differ in its aspects and the problem to define in a single definition, it is because, it has become a source for interdisciplinary in its wider applicatory areas of researchers.

Artificial Intelligence is not studied just only in computer science but also in philosophy, anthropology biology pedagogy, psychology, linguistics, cognitive science, neuro science statistics and many other disciplines.

Artificial Intelligence as machines, computers systems that imitate cognitive functions that are normally associated with the human mind such as learning and problem solving (Russel and Norvig, 2010)

According to Baker and Smith (2019, P.10) define artificial Intelligence as computers which perform cognitive tasks usually associated

with human minds particularly learning and problem -solving.

The Oxford Living Dictionary defines, "the theory and development of computer systems which able to perform tasks normally requiring human intelligence such as visual perception, speech recognition, decision making and translation between languages".

Artificial Intelligence has turn into a prominent technology in various fields, including education, it is in this field where Artificial Intelligence has shown great potential in its application and use. As stated by Ribeiro cited in (Fitria, 2023), the utilization of Artificial Intelligence in English language teaching (ELT) represents the most practical approach for English language instructors. As natural language processing, machine learning and data analysis continue to evolve, Artificial Intelligence has the potential to offer customized and adaptable learning journeys for individuals studying the English language . in the meantime, AI possesses the capacity to reproduce human contemplation practice, interpretation. as a result, within the active and dynamic realm of English education, artificial intelligence holds a distinct role in determining strategies for teaching and learning the language (Wang, 2019) with the swift development of technology, Artificial intelligence tools and applications have been incorporated into language learning platforms, classrooms and online resources drastically changing the way English has been taught and learnt.

Artificial Intelligence powered educational tools offers teachers and learners with the tools that allow us to respond not only to what being learnt but also to how it is being learn and how the student feels, it can help learners develop the knowledge and skills that employers are seeking and it can help teachers create more sophisticated learning environment then would otherwise be possible for example, Artificial Intelligence powered educational tools



that can enable collaborative learning of difficult tasks for one teacher to do alone by making sure that the right group, it is formed for the task-at-hand or by providing targeted support at just the right time.

Baker and Smith (2010) divide Artificial intelligence tools used in education in three groups-

1. Learner Facing AI tools are software that students use to learn a subject matter.

2. Teacher Facing systems are employed by teachers with the purpose to reduce their workload and make their output more effective in specific automating tasks such as administration, assessment, feedbacks and plagiarism detection.

3. System Facing AI tools provide information for administrators and managers on the institutional level, for example they assist monitor attention patterns across faculties and colleges.

Nowadays, AI is being considered as an important and highly essential tool in learning English, a crucial and also indispensable tool in promoting and endorsing English language teaching and learning skills ELT/L, it can provide new strategies and opportunities to overcome challenges in extending and enhancing vibrant and exciting learning experiences.

AI is useful for all ELT/L learners to be accessed by learners of all ages, all across all the globe. there are number of AI tools available to English language learners and teachers ELT/T such as LLMs (Large Language Models), ChatGPT, Google's Bard- Gemini, Microsoft Bing Chat.

The study and detail survey pointed out that the AI helps the learners in these five key areas, 1] for the development of Speaking, 2] writing 3] reading Skills 4] to support pedagogy and 5] for self regulation

Speaking

In pronunciation one can be improved, they are a variety of AI systems and programmes that helped students, it promoted meaningful interactions, supported vocabulary acquisition, improved language skills and provided interesting enjoyable learning outcomes.

With respect to pedagogical survey, some studies also highlighted the use of coaching and multimodal systems, that employed multiple ways to present information in multimedia such as text, image, audio and video, even inter mixing of all feasible multimedia to bring out the effect and eliminate the difficulties in learning English. AI as coach that tailored instruction what it mean to each student's learning and assimilation process while providing the patterns and needs resulting in the improvement of students terms of learning. pronunciation skills will be improved in an unimaginable way because the word pronouncing will be done in such a slow manner in which any learner can grasp and retain the vocal responses so easily that they can repeat in isolation as better practice and real improvement. it's also referred as pronunciation by reducing the flatness of pitch and intonation in other words it is sounding below the intended pronunciation note.

Spectrogram provided by the AI was helpful in supporting pronunciation, hence AI is used as a conversational partner a language coach and in a multimodal capacity for example Alexa- a personal voice assistant. Further areas regarding the use of AI technologies when learning to speak English, for speech recognition, adaptive learning, automatic speech analysis and voice assistant. this system assisted students practice record and react to students pronunciation, words resulting in longer retention of words, and significant benefits in learning consonants and vowel sounds.



Writing

AI in teaching or learning writing skill is another key area, the two important areas like Vocabulary learning and grammar. there is a neural machine translation (NMT) to translate text from one language to another resulted in students vocabulary improvement, especially when specialized or unambiguous expressions are involved. another most common use of AI in writing is the grammar checkers. these learning software will help in positive outcomes with an improvement in behavioral, emotional and cognitive engagement as well as self efficacy in writing. this increasingly good at handling procedural knowledge and systems within written text and languages. it is also useful in pedagogical affordances in teaching writing in English. some of the useful tools like grammar checkers, writing assistants, translation tools and pattern checkers, machine translation, Google translate may have helped less skilled learners in par with those of skilled learners, in terms of expressing with more complex words and higher quality syntax.

Reading

Reading is a non-productive skill compared to productive skills such as speaking and writing, even AI supports reading skills by providing gaming, gaming quest play mediated in English, English speaking player, world warcraft (wow), learn Vocabulary, understand meaning, it can help the learns in excellent way in which it can be considered more than beyond what a textbook\classroom can make available by contextualizing often decontextualised vocabulary.

Reading skills are endorsed by providing personalized feedback, adaptive learning tools and accessibility features like text-to-speech which can help with understanding fluency and engagement, AI can adapt content to individual skill levels, offer real-time corrections and provide tools for practicing specific skills like pronunciation and phonics.

Pedagogy

AI can provide methods, strategies and techniques used to facilitate ELT readers, the multiple approaches provide a more personalized learning, lectures, explanations and practice tests with a diagnostic assessment. it also offers by exploring a content based approach, learner generated context based data that is collected as the learners platform of actions and make choices. all after that the system then adapts to the learners and provide them more content that suit their preferences. such as fostered learning, self-autonomous learning experiences.

Pedagogy in learning AI serves as an additional tool provider to enhance the traditional education pattern. it focus on the teacher acting as a facilitator while students use AI to actively engage in learning, by giving strong emphasis on critical thinking, ethics and maintaining human connection, key approaches include using AI for personalized tutoring, managing cognitive load and promoting collaborative learning by ensuring students remain active and accountable for their learning outcomes.

Self regulation

The ability to manage and control one's thoughts, emotions, behavior and physiological responses to achieve personal goals and maintain well-being, self regulation by engaging students in active learning, regarding their goals and learning autonomy, this concept of AI trend allows students to actively partake in goal setting and become independent learners.

In other words, it is also called as (SRL) self regulated learning involving goal setting, planning monitoring and reflection is crucial for successful learning. SRL strategies include goal setting, cognitive and metacognitive processes, time management, self -reflection, help-seeking, monitoring technologies such as learning management system LMS, massive open online courses (MOOC), (AI) collaborative platform and learning analytics support SRL by providing



personalized feedback and facilitating autonomous learning.

obviously over relying on AI leads to some dangerous consequences in teaching and also learning English, one it leads to feel anxious about learning English, as well to speak in public, while making mistakes with vocabulary and interacting with others and also automatic speech recognition tools, and then lack of human interaction, leads to hinder critical thinking, risk of misinformation, inconsistency and potential inaccuracies of AI tools, inaccurate and incomplete information and other related technical limitations, includes malfunctions, poor connectivity, more specific was incorrect answers given by Artificial intelligence. it will create fear in students about storing information, sharing, and also uncertainty about how the AI was operating, learners are also in fearsome environment by losing the actual natural learning environment.

obstacles for the use of Artificial Intelligence

There are number of obstacles for learners to overcome while learning English, insufficient input, inadequate exposure to target language, limited opportunities for using inside and outside the classroom, lack of skill, lack of motivation, lack of access to quality teaching and the fear of making mistakes and being understood properly, as well in a very wrong way and an unhealthy learning environment, educators need to seek ways to help the learners, to adapt suitable ways of learning English, the factor of fear in non-updating on the part of the teacher might effect and pose a big hindrance in the way of AI dependent mode of Language teaching.

To use technology in the field of education will bring a new approach and enhancement in terms of quality to both learners and teachers. AI powered tools assist to create good and highly conducive learning environment in which learning mode can be personalized, flexible in terms of teaching

management may become more inclusive, they can help learners develop their knowledge and skills that modern technology-enhanced society requires in advancement , for ease and quick learning abilities are concerned, now there is no scope for dystopian view of negating the use of AI in learning. nowadays it helps both learners and teachers to be successful absolutely within short feasible time. the best help it can offer, it could be the best platform for better understanding of one another's progress and organization of learning process. in connection both the language teaching resource provider and the receiver as a language learner, it has made a learning environment more friendly, learners to feel ease in learning and more effective while reducing the time of learning activities.

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