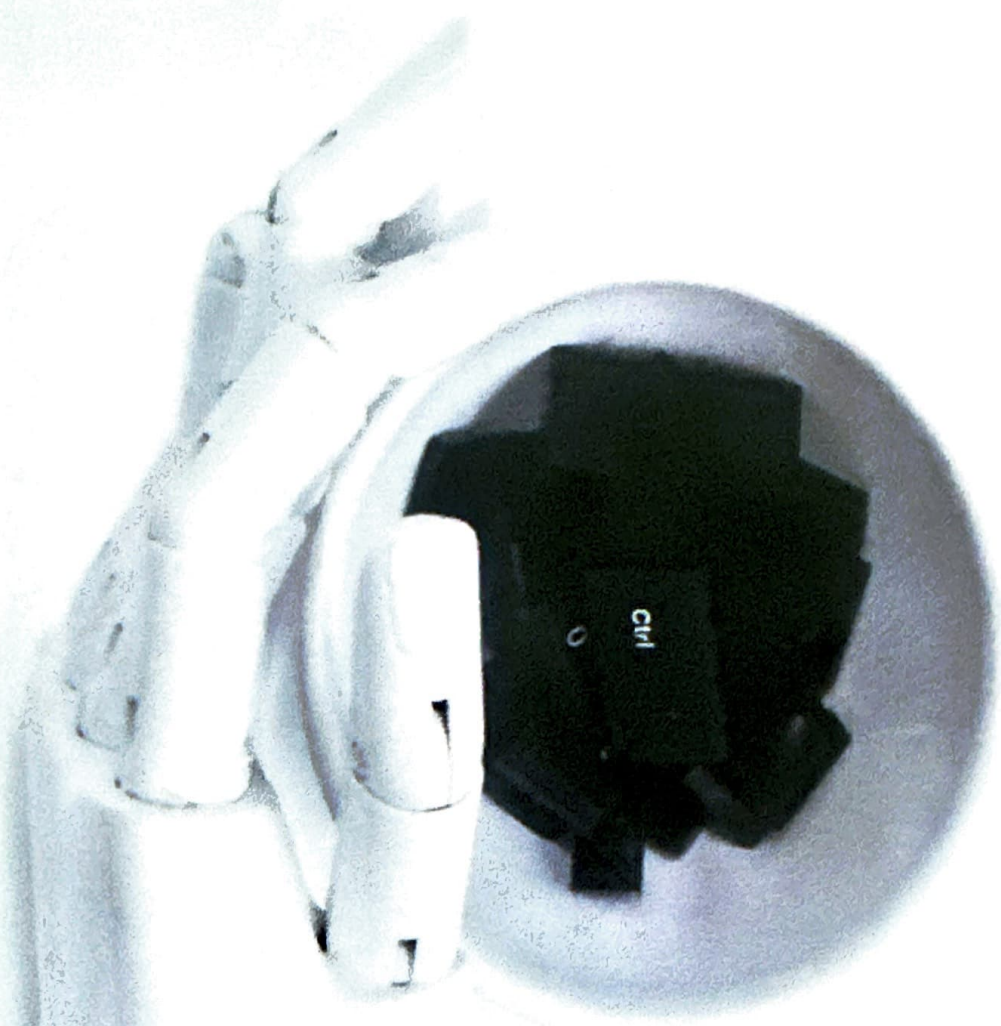


THE AI RENAISSANCE

CREATIVITY, LANGUAGE AND TEACHING IN
THE AGE OF INTELLIGENT MACHINES



EDITED BY

SANDEEP S S

THE AI RENAISSANCE

**CREATIVITY, LANGUAGE AND TEACHING
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AI IN ENGLISH LANGUAGE TEACHING: REVOLUTIONIZING THE CLASSROOM EXPERIENCE

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Abstract:

The ability to learn English is imperative in today's globalized world where English leads to not only the official language but, also a desired language for communication, furthering one's education, and career growth. However, the presence of a tutor is still highly desirable as the new role of AI changes how we may engage new learners of English language, by introducing a new method of instruction that can offer a personalized learning process. In this article, we will consider how AI assists students by building personalized lessons, offering immediate and timely feedback, and allows students to learn at their own pace and relieve pressure on the environment with no pressure, an overwhelming context. AI expands learning opportunities, access and efficiency, and benefits students from diverse backgrounds, relative educational norms or even students living in remote functions of the province. There are some limitations to AI for learning, notably privacy. AI is also assisting tutors develop as teachers, by progressing learner advances, and providing resources for enhancing learner support. Altogether, AI is a

power dynamic engine changing the way we teach and learn English with advantages and disadvantages.

Introduction:

*It's not about Artificial Intelligence, But
Amplifying Human Intelligence*

-Amber Case

Artificial Intelligence is the branch of computer science that aims to create machines/systems that mimic human-like intellectual behaviours. It is the branch of science that makes machines think and act like rational humans. AI involves developing algorithms and systems to perform tasks requiring human intelligence, such as visual perception, speech recognition, decision-making, language translation, and more. Artificial Intelligence was initially proposed by Alan Turing and John Mc Cathy. In 1950, Turing published "Computing Machinery and Intelligence", and introduced a test to see if a machine behaves like a human at any type of task. This test was known as the Turing Test, and Turing is considered to be the "father of AI". Artificial Intelligence is now helping English Language Teaching (ELT) with more effective and individualized learning. Learning English using AI methods offers personalized, adaptive, and engaging experiences, leading to faster and more efficient language acquisition. That is, with AI-based technologies like chatbots, language apps, and virtual teachers, English language learners can practice speaking, listening, reading, and writing on their own time and at their own pace. These technologies provide additional benefits by allowing increased accessibility, individualized learning experiences, and additional support for different styles of learning; however, considerations must be taken to address privacy concerns, fewer interpersonal interactions, and excessive reliance on technology. In spite of these considerations, AI can improve language learning and ultimately provide better resources for teachers and learners, and ultimately, be more economically feasible and effective for teaching in the future.

Language Development Since the Early Stages:

In the earlier times of human existence, people did not have a style of human communication, but rather they used gestures and facial expressions to communicate, particularly with individuals that were disabled. Initially, there was no specific language, but a general way to communicate. Language began to expand, develop, and define the word as technology improved and people began travelling from one area to another. Eventually, languages would change from generation to generation in a variety of ways that fit into a new language use for many. With languages developing in certain areas, people learned to communicate with one another. Over time, a great number of languages were created and developed collectively. Consequently, in the beginning years of sharing language, learning a new language would be difficult because the tongues of people were not acclimated to new sounds. Eventually, education systems began to develop, and there was language learning as framed within an education context. Language developed in varieties, such as pronunciation, vocabulary and grammar. This all provided the opportunity to practice, which would support and assist in feeling at ease with speaking a new language over the years. However, even with years of practice, a new language may still remain difficult and challenging based on the sounds and style, especially if you begin travelling or living in another country. Ultimately, some languages are easier to learn than others based on your personal experience and ability to adapt to learn it. In the end, a person's experience with their environment learns some language and creates a system of language depth based on exposure to troubling environments. Language plays the vital role in uniting people and countries.

The Role of AI in English Language Teaching:

The next tier in the continuum of language learning is LSRW: Listening, Speaking, Reading, and Writing. Listening is the most significant component of LSRW, as it lays the foundation of language learning. Understanding and being able to respond to spoken language is critical to communication, and listening allows the learner terrain; entry to language use, and how words and phrases are utilized at the most basic levels of language fluency. Speaking is the next most important tier of language learning, as this process encompasses the active use of

the language, the student has learned and developed. In addition to understanding the spoken language, speaking includes pronunciation, while also demonstrating that the learner is able to construct logical sentences in the language, in order to communicate. Reading is another vital level of language learning, emphasizing pronunciation, vocabulary development and grammar, within context. Reading provides exposure to multiple and various styles of writing and aid with becoming more fluent when speaking the language, whilst also exposing the learner to common and useful grammatical patterns, which expedite fluency and outlook with language proficiency. Lastly, in LSRW is writing, in which involves utilizing the knowledge learned and gained from listening, speaking and reading. Writing is also the stage where all students have the potential for complete self-expression, as they are using learned language to represent their own ideas and thoughts. Writing is the level of LSRW where students can have maximized ownership of the language under acquisition, and at this point, become practice grammar, vocabulary, and structures within usable language fluency. From here the technology development also takes place and AI started to play a major role here. People desperately wanted to learn at any cost, and with the help of AI they succeed as well. Slowly management started to focus on AI in their institution too to help people learn English. And that is how tutors too adapt to the AI formation of teaching English. Artificial Intelligence technologies are playing a vital role in ELT by creating customized learning experiences and helping teachers handle the classroom with better experience.

Intelligent Tutoring Systems (ITS): These are AI-based systems which helps with the learning process and provide default feedback and tutoring to students, maintain according to their personal learning speed and level of mastery. Many Google websites employ AI to make language lessons more customized and provide immediate feedback on pronunciation, grammar, and vocabulary.

Speech Recognition: This is an AI Tool which helps with Speaking. Google Assistant and few other AI Technologies are enhancing the pronunciation and fluency of students by offering immediate feedback on their spoken English. AI speech recognition tools allow learners to practice speaking, allow them

to hear their errors, and refine their accent with the help of the tutors.

AI is Empowering Tutors:

AI assists teachers in administrative work and classroom management, enabling them to dedicate more time to teaching and interacting with the students. AI is revolutionizing learning English by providing new, technology-based approaches that are engaging, interactive, and efficient. English Language development is not always a bigger case here. It's about the level of English one speak which differs with each and every country. As this is about the Universal Language English is not always necessary to be the same level in each country. For instance, South Asian Language has a different level according to the people who are well aware of the Language. On analysing the people, the level of English is categorized as

- ✓ Beginner Level
- ✓ Elementary level
- ✓ Pre-Intermediate Level
- ✓ Intermediate Level
- ✓ Upper-Intermediate Level
- ✓ Advance Level

According to these levels, management of each Institution have decided to train their tutors too with help of AI, and how to use AI and teach students. Here people who are categorized as a higher-level vocabulary holder can be the neutral level of vocabulary and pronunciation in another country. And that is how English speakers differs with each country and AI is used to improve the Language skills, because AI is generated with the previous updated data of each and every single learner and so observing other speakers AI can connect, calculate analyse and give feedback accordingly. Tutors who use AI to teach the learners can classify the teaching and observing methods, analyse them (Learner's) and teach accordingly.

These are the designated lists in a format.

LSRW

Listening:

- ✓ Skill -> Vocabulary
- ✓ Pedagogy -> Pronunciation, providing feedback
- ✓ Technology -> Augmented Reality

Speaking:

- ✓ Skill ->Pronunciation
- ✓ Pedagogy -> Conversational, Language Coaching
- ✓ Technology ->Adaptive learning, Automatic Speech analysis, Voice assistance

Reading:

- ✓ Skill -> Vocabulary
- ✓ Pedagogy ->Gaming
- ✓ Technology ->Digital Translation, Gaming

Writing:

- ✓ Skill -> Vocabulary learning, Grammar
- ✓ Pedagogy ->Feedback
- ✓ Technology -> Writing assistance, Translation

Pedagogy:

- ✓ Score predictions
- ✓ Lectures
- ✓ Explanation
- ✓ Context-based learning
- ✓ Feedback
- ✓ Assessment

Self-Regulation:

- ✓ Goal Setting
- ✓ Social presence
- ✓ Self-Inquiry
- ✓ Learning Independence
- ✓ Enjoyment

✓ Anxiety

Here pedagogy and self-regulation are the additional factors that are added.

Personalized Learning Paths: AI examine a student's strengths and weaknesses, giving them an individual curriculum and learning schedule. This enables students to work on areas they require improvement in, optimizing efficiency and motivation. AI systems may monitor student performance and behaviour patterns, enabling teachers to identify underperforming students early. The data enables teachers to intervene at the right time and adapt teaching approaches accordingly.

Language Immersion and AI: The future AI software may develop complete language learning immersion environments where students can engage with virtual or augmented reality (VR/AR) situations that mimic the actual happenings in the world.

Content Creation through AI: AI can create personalized lessons, articles, and language learning materials, yet another level of personalization to the learning process. AI also assist educators in creating more engaging and interactive lessons that are responsive to feedback from students. Collaborative

Virtual Assistants and Chatbots: AI-driven chatbots can mimic native speaker conversations with students using Online classrooms, offering them a low-stress, secure platform where they can develop speaking and listening skills.

Gamification: This is an excellent ancillary tool. AI is helping to make learning languages more entertaining by introducing elements of gamification like quizzes, achievements, and rewards. This method has been followed even before AI been developed. For instance, people used to play Crossword Puzzle in newspaper, Pictionary, etc. It not only provides fun to the process but also motivates learners to remain on track and follow their progress.

Automated Grading Systems: AI can help teachers by grading assignments, essays, and quizzes faster and more accurately. It saves time on mundane tasks, allowing educators to give more substantial feedback to students. Additionally, tutors can also add some assessments, which they personally think that can actually

help the learners to improve and help them develop advance level speaking skills.

Challenges of AI in English Language Teaching:

Though AI has many benefits, its application in ELT, it also has some issues that must be resolved.

Technology Dependence: Excessive dependence on AI may increase the chances of decreasing face-to-face interaction, which is needed in order to develop social skills and communication skills in a second language. The human aspect of teachings such as emotional care and cultural insights may be compromised in strictly AI-based settings.

Data Privacy and Security: With AI comes the gathering of large volumes of personal data, which creates issues related to data privacy and security. Educators and developers need to make sure that AI tools are developed with strong privacy safeguards in place. One may think it cannot be a great issue but, in the future, this can actually influence the whole world and can create great impact. If one's data is not secured then they can be misused in the future for one self's benefit. And so, data privacy plays a major role here. And the dependency of AI, yes on over usage of AI people can gradually get too dependent on this Artificial Intelligence and the future can work in no teacher format which is actually quite dangerous. Imagine a World with no emotions, no humans in need, everything machined, that will become too sceptical just because that is how the whole world is working.

The Shift from Human Creativity to AI in Assignments:

Historical Function of Assignments: Throughout the years, assignments were employed to push students' intellect, creativity, and critical thinking. Through completing assignments, the students were spurred to try out new things, think critically, and improve their research, writing, and analytical skills. Intellectual development, as well as mental stimulation, were made possible by the assignments. The students could establish a greater connection with the subject matter through the assignments. All these are advantageous to the work habit, where in order to search, how and when to search a source, how to work an Assignment, rule and regulation what has to be followed. But today most of these things are not performed by most of the students and hence the search process procedure, patience of wait

due to some technical snag or some slow movement process could not manage. And the reason was they were not aware of any of these challenges. AI made student's work easy, and also hardworking process is getting forgotten, and they are becoming lazy.

Assignments always compelled students to:

- ✓ Think in a critical and original manner.
- ✓ Do research and integrate information.
- ✓ Enhance time management, concentration, and self-discipline.

These activities were beneficial in promoting autonomous thinking and development of human intellect in different forms from logical thinking to emotional intelligence.

Emergence of AI-Based Homework: AI tools like grammar checkers, essay generators, research aid, and even AI programs like ChatGPT are being utilized to assist students in homework. While AI has numerous benefits, it has begun to alter the character of homework in some ways.

Reduced Cognitive Strain: AI can currently assist students in coming up with ideas, paraphrasing articles, or even entire papers. Such information access has the power to decrease the cognitive load of coming to know and deeply interacting with a subject matter, at the expense of creativity and mind growth such traditional assignments promised.

Tasks Done Automatically: Tasks which required manual research and thinking earlier, such as fetching references or proofreading, are done automatically now using AI applications. Though time-efficient, this could reduce students' critical thinking along with work and skill achievement in real-life problems.

Over Reliance on AI Tools: As students increasingly turn to AI for directions on how to do a problem or an assignment, there is the risk of reliance on technology. This could lead to a decline in self-learnership and being unable to develop skills in writing, creativity, and critical thinking.

AI and Human Emotions

English Language Teachings surely is considerable for both students and tutors but to some extent humans are need to take be placed in the head of the administration. Of course, AI helps with communication but peer engagement is also the most important to cope up with other humans, to understand their emotions accordingly. Where the AI audio only helps the pronunciation and the words but humans help with the tongue placement of each word and how every word and even letter works. Tutors who try to teach all students understand everyone's emotions unlike AI which only does the process of teaching the tutees. We need to look into a specific robot named SOFIA, an AI Robot which got developed in Hongkong Company, is now in the usage between humans. Though they are technically advanced, still they lack few other important Characteristics such as, the intonations in the speech, the emotions it tries to carry with its facial expressions, etc. Tutors, Teachers, Lectures, Professors, staffs, Faculties... they are called as a second mother for a reason. They carry the role of teaching and hidden caretaker if needed. That is why humans trust humans a lot more than a mere machine or Technology. These AIs are good with work but spontaneous thought and presence of mind does not work with AI's.

Conclusion:

AI is indeed transforming the place of English Language Teaching by providing customized learning experience, increasing efficiency in the classroom, and aiding learners and instructors in getting better outcomes. Even these images have been captured through the assistance of AI. That's how effective AI today are. Nevertheless, one must find a balance with human interaction and tackle concerns such as accessibility and privacy. As technology advances with AI, it alters the mode of teaching and learning English and becomes more efficient, inclusive, and enjoyable for all, but the development of English language itself is recognized by a human being and the instructors themselves decide the manner like, how a person should be instructed and in which manner to instruct. The instruction is carried out using AI. Education must be made equal for all people in this world, Using and keeping AI technologies in Schools may cost a lot. So, if AI is free even for lower economically earning individuals, then they can enhance their English skill as well, which eventually leads to

the growth of a Country both educationally and in a standardized manner.

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