

## Scope of Artificial Intelligence in the Indian Context

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### **ABSTRACT**

In the present day context technology and communication plays an important role in every field. At present time we are moving towards 4<sup>th</sup> industrial revolution in which we are trying to increase the quality of our work, in every stage of human being evolution is very much associated with the industrial revolution, in fourth industrial revolution human beings should be very much advanced in using equipments and technology more over in all fields. They may be as teachers, Engineers, Doctors, etc. But still in their field they should use technology for their new achievement. The fourth industrial revolution in last five decades is characterized by the combination of technologies that is blurring the line between the between the physical, digital and biological sphere. Language learning is not only a physical process but it connects technology and people who belongs to the biological sphere. In this modern world English language connects majority of people all over the world. This research paper probes into the use of Artificial intelligence in ELT classroom in an Indian context. However English language learning/teaching can be considered in a global context because English language is a lingua franca, still in Indian context how well this AI (Artificial Intelligence) is used effectively is scrutinized in this paper.

**Keywords:** Artificial Intelligence, Fourth industrial revolution, Machine Learning, Second language learners.

### **INTRODUCTION:**

In present day scenario English Language is considered to be as the Lingua- Franca that connects large number of people all over the world, in such case teaching/learning English Language is a bounded duty of all learner people. Good communication skills and writing skills in English makes students more empowered. As English is not our mother tongue to have a master over that Second language we are in need of learning tools too ape or mimic the Second language. In the present day situation we are living in the era of 4<sup>th</sup> Industrial Revolution in which technology is used in all the field such as Engineering, Medicine and so on, in such case convention method cannot be followed teaching/ learning English language. The present

day techno crating learners and teachers are in need of advanced tools one such tool is using Artificial Intelligence in learning a second language (English). In 2017, Manns summarise the idea of Fourth Industrial Revolution as the changing life that we live, we work and we acquire knowledge is drastically changed over a time. This idea replicates and combination of budding breakthroughs in the field of Communication Technology and Artificial intelligence, robotics paves wave to new form of learning, robotics not only includes the real robots but usage of mobile phone for connecting people around the world, to fetch data and knowledge is also comes under Machine Learning

Water and steam power were employed to outfit humans during the First Industrial Revolution. The second industrial revolution utilised electricity to mass produce goods, while the third employed electronics and information technology to boost output. The fourth industrial revolution is an extension of the third revolution and the rise. The fourth industrial revolution developed digitalization. The digitalization revolution is happening for last five decades, now in the modern era the fourth industrial revolution can be characterized by fusion of technologies that blurring the line between the physical and biological spheres. The fourth industrial revolution changes the aspects of learning in each and every dimension, this fourth industrial revolution never left English Language.

#### **ARTIFICIAL INTELLIGENCE AND LEARNING LANGUAGE:**

Artificial Intelligence (AI) is continuously piercing our daily lives. Artificial Intelligence is an important component in many fields such as e-commerce, marketing, manufacturing and in Locomotive industries. Now in this modern era, we started to use Artificial Intelligence (AI) in learning foreign language. If we implement complete artificial intelligence in language learning this will be the most significant revolution in education system.

#### **ARTIFICIAL INTELLIGENCE IN INDIA:**

In a country like India, where Machine Intelligence is employed to provide high results with high quality, AI is bringing a sea shift in world technology. India is regarded as the fastest expanding economy in the world, with the world's second biggest demographic Population; India has a significant interest in AI development. Popular technology institutes in the nation, such as IITs and NITs, were the first to undertake Ai - powered development in India.

According to Monomita Chakraborty's paper, one of the primary obstacles of artificial intelligence is that India has a relatively small number of researchers in the field of machine learning and its output. The freshly established AI machine learning idea is unknown to the majority of Indians. India lacks adequate skilled employees to apply its own challenges data due to less standard packages. Current AI solutions for dealing with the problem in India are limited in their ability to manage problems.

### **MYTH OF LOSING JOB:**

There is a common belief among the teachers, especially language teachers if they introduce AI in the field of teaching process they might lose their job but it is not true. Because only the role of the teachers will be changed, they will not be as a teachers they don't want to deal with all the paper works instead they can be as facilitator and guide. As a good mentor they can concentrate upon the development of the students easily, so they can spend time with the student in a positive way. This AI machine learning can make a drastic change in English Language teaching classrooms.

### **AI LEARNING PROCESS AND AI LEARNING APPLICATION FOR ELT:**

Artificial intelligence is not something that is often associated with robotics, it is always misinterpreted that as use of robotics in the field of education but that is not the real fact the real fact is that AI processes are used in our day to day life, the machines that used for learning can be categorized as AI tool.

AI tool is designed on the basis of the idea that human intelligence can be imitated by machines and that knowledge can help the other group of learners. Artificial Intelligence is very much used in the field of teaching/learning English Language. AI can never replace a teacher instead it can facilitate the students. Any second language learner for instance to get accustomed with the foreign language they at first should have a strong base in the second language such as knowing SL synonyms, antonyms, usage of words and pronunciation this can be taught by AI applications.

AI applications can give the language learner a feedback of what they try to imitate, the assessment process in learning a second language can be easily carried out easily. The interaction with the AI applications can improve the performance of the English language learners.

The most significant examples of AI Application are Duolingo, Google translator, Google docs speech recognition, Interacting with Google assistant, Using Google maps to practice directions in English, Grammarly, Trinkia, cllipy, the Microsoft suite assistant, Chat boats, Quill boat are some of these AI applications not only used to learn language but also to improve the standard of usage of Second language.

### **ARTIFICIAL INTELLIGENCE IN INDIA CONTEXT:**

A small Survey has been made in a classroom of mixed learners in India; they have been given a set of five questions and their responses were recorded in the fig-1, 2, 3, 4 and 5. Figures were mentioned below. By analyzing the following data 50% people in India are aware of using Artificial Intelligence (AI) in learning English Language. But the mixed groups of people are not effectively using AI in learning English language in a country like India.

Do you think India is very much advanced in using AI (technologies) in an ELT classroom?  
27 responses

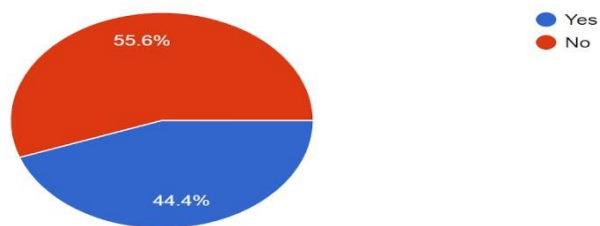


Fig-1

Do you ever thought that Learning Languages through mobile phones is much equal to using Artificial Intelligence(AI) in learning/ teaching English language?  
27 responses

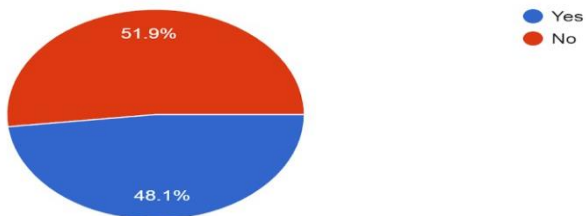


Fig-2

Do you think Google doc speech recognition is well used in India?  
27 responses

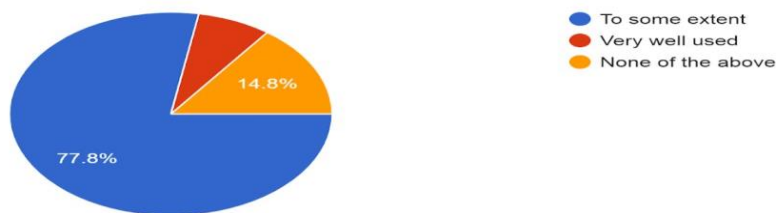


Fig-3

Do you think in India all group of people are using machine learning to learn a language?  
27 responses

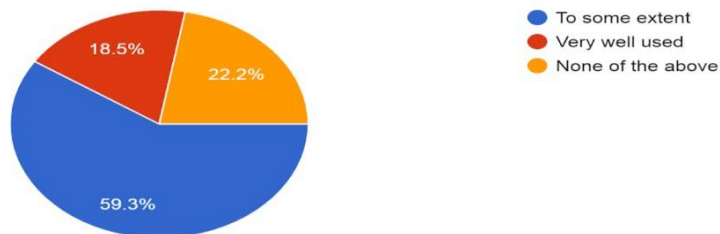


Fig-4

Do you think Interacting with Google assistant, will develop the pronunciation of the non- native (Indian) Speakers?  
27 responses



Fig-5

**Conclusion:**

The fourth Industrial revolution paved a way for advanced Artificial Intelligence in language learning. This research paper focused mainly on English language learning/ Teaching English language in an Indian Context and applications used in India to implement AI in learning language. However, learning English language can be seen in a global context but in a country like India were people uses mixed vernacular languages but still they are connected by a common language English which acts as a connecting language. In an Indian context English can be learnt by using machine learning or Artificial intelligence to some extent effectively, when compared to other developing countries India uses AI in ELT classrooms to some extent effectively and is also gives a good outcome.

**Reference:**

*Artificial Intelligence: Opportunities, threats and the future of learning* (2017) UNESCO Bangkok. Available at: <https://bangkok.unesco.org/content/artificial-intelligence-opportunities-threats-and-future-learning>.

Chowdhury, M. (2019) *The evolution of Artificial Intelligence: Past, present & future*, *Analytics Insight*. Available at: <https://www.analyticsinsight.net/the-evolution-of-artificial-intelligence-past-present-future/> (Accessed: January 21, 2021).

Ribeiro, R. (2018) *AI in English language learning: Cambridge English, World of Better Learning* / *Cambridge University Press*. Available at: <https://www.cambridge.org/elt/blog/2020/03/09/artificial-intelligence-english-language-learning/> (Accessed: January 2021).

*The Fourth Industrial Revolution: What It Means and how to respond* (no date) *World Economic Forum*. Available at: <https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond/> (Accessed: January 21, 2021).