

## Implementing Artificial Intelligence Tools as a Language Learning Method for Second Language Learners

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### Abstract

This paper delves into the deployment of artificial intelligence (AI) tool as innovative methods for language learning. With the rapid advancement of AI technologies, there is a growing interest in leveraging these tools to enhance language acquisition processes. This paper explores various AI-driven approaches, including language learning apps, virtual tutors, chatbots, and translation services, and examines their effectiveness in facilitating language learning across different proficiency levels and learning styles. Furthermore, it is about benefits and challenges associated with the integration of AI Tools into language education, highlighting the potential for personalised learning experiences, real-time feedback, and enhanced engagement. Through a review of existing research and case studies, this paper provides insights into the practical implementation and implications of deploying AI tools as language learning methods.

**Keywords:** Artificial Intelligence Tools, language learning method, second language learners

### Introduction

Language Learning is broadly defined as developing the ability to communicate in second (or) foreign language. Language is a medium of understanding expression and communication. It is used towards the target language. The Objective of the study is described as explicit knowledge of language. Learning a new language involves Listening,

Speaking, Reading and Writing. The Four Language skills are interconnected. Each skill focuses exclusively on just one activity. Reading habit make vocabulary enriched it enhance the speaking skill, so all these four skills are interconnected. To evaluate these skills there are main three key principles. Input, Output and Feedback. The biggest challenge in language learning is overcoming own fears. By practising these four skills effectively, learning a new language will be easier.

The process of learning language is about having extended period of time to engage speakers, listeners, readers, writers and viewers. AI powered language learning tools can significantly speed up the learning process by providing instant feedback identifying area for improvement and adjusting the learning materials accordingly. It can enhance language assessment with automated grading and feedback facilitates effective language practice through chat bots and language processing tools. Artificial Intelligence plays a pivotal role in transforming language learning through enhanced learning experience.

The powerful combination of analytical AI and Machine learning enables language in an effective way. Language Learning has always been an essential skill for personal growth, career advancement and cultural understanding. However, traditional methods of language learning can be time-consuming and not very effective, with the rapid change in technology, artificial intelligence and is revolutionising ways for language learning process more accessible, efficient, and enjoyable. In this paper it is discussed about the impact of AI on language learning and discussed about popular tools, techniques and future trends.

### **Traditional Methods of language learning**

Earlier learning a new language typically involved attending classes, working through textbooks and practicing with native speakers. While these methods can be effective, they often a require a significant amount of time effort and financial resources. After the rise of digital technology internet has provided new opportunity for language learners. Online courses, language exchanging platforms and mobile apps has made learning more accessible and convenient. However, AI in language learning is the next level by providing invaluable information. There are various language teaching methods each with its own approach and focus. Some common methods include.

### **Grammar Translation-Method**

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This method is older way of method it's originally focused on Traditional based methods it's emphasize learning grammar rules and translating between languages. It embraces a wide range of approaches. Still, foreign language study is seen as mental discipline the goal of which may be to read literature in its original form or to be a form of intellectual development.

### **Direct Method**

It focuses on teaching through immersion using the target language exclusively without translation. This method became popular in 19<sup>th</sup> and 20<sup>th</sup> century.

### **Audio-Lingual Method**

This method teaches through Listening Audio and concentrates on repetition and mimicry and drills to develop speaking and listening skills.

### **Communicating Language Teaching Method**

It emphasizes real-life communication focusing on practical language use and interaction. It encourages learners to communicate meaningfully in the target language through activities such as role-plays discussing and problem solving tasks.

### **Task Based Language Teaching Method**

In this method where the language is being taught it is used as primary means of instruction and communication .it aims to create an environment which learners are consistently exposed and encouraged to the target language. It encourages learners to become proficient and comfortable in using the language for communication fluency and confidence in real-world situation.

### **Total Physical Response**

The Total Physical Response method is an instructional approach that emphasizes the uses of physical movement to facilitate language learning. This method was developed by Dr. James Asher in 1960s naturally acquire first language through physical action and response. It is practically effective for beginners and young learners and provides a memorable engaging way to interactive vocabulary and language structures. It aims to create a

foundation of comprehensive and familiarisation with the language before focusing on speaker and production.

### **The Silent Way Method**

The silent way method of language teaching was formally developed by Caleb Gattegno. (Gattegno, Caleb (1972). *Teaching Foreign Languages in Schools: The Silent Way* (2nd ed.). New York: Educational Solutions.) It is based on the premise teacher should be silent as much as possible in the classroom, but the learners should be encouraged to produce as much as language possible. It is a student centric method. They are supposed to make their own discussions gain their own insights into functions of the language.

### **Eclectic Approach**

It is a method of language learning that combines various approaches and methodologies to teach language depending on the aims of the lesson and the abilities of learners. In this approach teacher has more flexibility and adaptability to choose the best elements to help language learning of the students.

### **Transforming Language Learning through Artificial Intelligence**

AI powered language learning apps are becoming increasingly popular due to their ability to adapt to individual learners' needs and preferences. These apps use machine learning algorithm to analyse users' progress and provide personalised feedback and suggestion making the learning process more efficient and engaging. One of the key benefits of AI in language learning is the ability to create personalised learning experiences. AI can analyse a learner's strength and weakness allowing the app to improve the context and difficulty level to suit the individual needs. This targeted approach helps learners progress more quickly and effectively.

### **Artificial Intelligence Tools in English Language Learning**

The rapid expansion of technology and digital application that characterizes 4<sup>th</sup> industrial revolution is changing the way we live, work and learn. It is a revolution driven by the fusion and amplification of emerging breakthrough in artificial intelligence automation, robotics and is multiplied by the far-reaching connectivity between billions of people with

mobile devices that offer unpredicted access to data and knowledge (Manns 2017). The development of intelligible pronunciation is an ongoing challenge to both ELT and EFL students and teachers across all language levels. There are technologies available free of charge that can assist both teachers and students in this regard. Speech can be transcribed, pronunciation checked and voice commands answered.

The following tools are used for language learning.

### **AI Tools in Language Learning**

#### **Talk-Pal**

Talk Pal is a popular best-known tool as a language learning app that uses AI to personalise learning experience. It is highly rated by customers and helps students to learn a language effectively.

#### **Duo-lingo**

This popular language learning app uses AI to personalise learning experiences. The app provides a variety of engaging activities, quizzes and games that adapt the users' skill level and learning preferences.

#### **Rosetta Stone**

It is a well-known language learning platform that incorporates speech recognition technology and AI algorithm to provide personalised feedback and recommendations. The platforms offer a wide range of language learning materials to suit learners' needs.

#### **Mondly**

It is a language learning app that uses AI-Powered and voice recognition technology to create immersive and interactive learning experiences. The app offers lessons in over 30 languages and provides real time feedback on pronunciation and grammar.

#### **Benefits of AI Tools**

The main aspect of AI is improving the learning process. These learning tools can significantly speed up the learning process by providing instant feedback, identify areas for

improvement, and adjusting the learners' materials accordingly. This allows learners to focus on their weakness and make rapid progress. One of the most challenging aspects of language learning is mastering pronunciation and accent. AI-powered tools can provide real time feedback on pronunciation, enabling learners to correct their mistakes and develop a more authentic accent. AI has made language learning more accessible to people who may not have access to traditional learning resources. With AI-Powered apps and platforms everyone with a smart phone or internet connection can learn a new language from anywhere in the world. The gamification elements incorporated in these apps motivate the learners and enable them to maintain long term commitment to language learning.

### **Challenges in AI learning**

As with any technology that collects and analyses user data, privacy concerns are an important consideration in AI powered language learning tools. Users must be aware of how their data is being used and stored. They should be comfortable with the level of data collection involved.

While AI has made significant advancement in language learning there are still limitation to the technology. For example, AI may struggle to understand complex language nuances, idiomatic expressions and cultural contexts which can affect the quality of learning experience. Despite the numerous benefits of AI-powered language learning, it is essential not to overlook the importance of human interaction in the learning process connecting with native speakers, engaging in conversations, and immersing in language culture which will provide invaluable learning experience that AI cannot fully replicate.

### **Conclusion**

The current study of the paper aims to identify AI's application in language learning and teaching. The discussion supports the notion that, due to its many advantages, AI is useful in language teaching and learning. Since AI is a continuously developing science, it will always produce new tools for teaching and learning languages. Future language learning is anticipated to be significantly influenced by AI as it develops. It is imperative to emphasize that AI is a potent tool that may be employed to enhance language acquisition for students of all ages and proficiency levels. Artificial intelligence (AI) can assist students in learning a new language more quickly and successfully by offering individualised learning, real-time

feedback, adaptability, access to resources, and cost-effectiveness. It is unlikely that technology will ever fully replace instructors, though. Teachers have a special combination of abilities and traits that AI cannot duplicate in the classroom, including emotional intelligence, the capacity to adapt to different requirements, creativity, relationship-building, and judgement.

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