



The use of Artificial Intelligence in Learning and Teaching English Language and Literature in India

Dr. Narsingh Pimparne*
 Bahirji Smarak Mahavidyalaya
 Basmathnagar Dist- Hingoli (MS)

Abstract:

The rapid progress of the Artificial Intelligence (AI) has had a tremendous impact on the educational practice of the entire world. The present paper finds the use of AI in teaching and learning English language and literature, its benefits, challenges, and learning opportunities in India. It can be transformed to adaptive learning systems, chatbots, automated assessment systems, and intelligent tutoring systems, which are referred to as examples of AIs that are transforming the classroom and which offer an individualized educational experience and data-driven information. It concludes the paper by making suggestions on how AI may be adopted successfully in the process of teaching English such that it helps enhance students' engagement, language competence and enjoyment of literature.

Keywords: *Technology, Application Artificial Intelligence (AI) Natural Language Processing (NLP), Adaptive Learning Systems, Intelligent Tutoring*

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***Corresponding Author:**

Dr. Narsingh Pimparne

Email:

Introduction

In the modern world, AI technologies may enter various sectors, and the education industry is not an exception. Pedagogies of teaching and learning English language and literature are very challenging in regards to personal and interactive along with reflective methods. Inasmuch as traditional methods are significant, they lack the ability to suit the different needs of learners. AI opens up the opportunities to alter the techniques of teaching, enhance the autonomy of students, and support one in the classroom life of teachers.

The main concepts: Artificial Intelligence (AI), Natural Language Processing (NLP), Adaptive Learning Systems, Intelligent Tutoring.

Literature Review: Research has shown that applications based on AI can help with language acquisition by offering individual feedback, drawing conclusions on errors, and questions generated by the computer. Real-time suggestions and corrections are suggested and provided by such tools as Duolingo, Grammarly and AI chatbots. The text analysis software implemented using AI can be applied in literature studies to enable students to learn about the themes, emotion, and stylistic devices in the literary works. Nevertheless, researches carried out within Indian academic institutions reveal that there exists a division of knowledge and application of these technologies by facilities and educators. Further research should be carried out on the individual Indian research and they should be mentioned here.

Artificial Intelligence in Learning and Teaching English Language and Literature:

1 Adaptive language learning based learning platforms: The AI-based systems personalize instructions depending on the performance of the learners. The level of difficulty, vocabulary, grammar exercises, and passages to read can be made according to the profile of the particular learners, using these systems.

2 AI Conversation Chatbots: Chatbots also imitate the interactions, and students can practice speaking and listening. These applications make use of NLP to process the input of the learner and give contextual responses.

3 Automated Writing Evaluation: Writing assessment will be automated using the German spelling evaluation system. The immediate reaction to the essay and written tests is AI grading systems which demonstrate the errors in grammar, vocabulary, coherence and structure.

4 Speech Recognition and Pronunciation: The speech analysis software help the learners to improve their linguistic fluency and pronunciation because of instant corrective feedback.

Artificial Intelligence in Literature Pedagogy and Literary Analysis as follows:

1 AI-based Text Analysis: Voyant and IBM Watson are among the applications that might be used to analyse a text to find patterns in themes, tone, and other stylistic constraints, which aid in the interpretation of a literary work.

2 Generative AI on Creative Response: AI moderators can mediate the discussion of literature, select questions that are analytical, and summarise significant remarks.

3 Generative AI For Creative Response: One can

generate creative interaction with the help of AI like ChatGPT that can generate interpretative essays, briefs about characters, or imaginary extensions of the story.

Development AI advantages

1 Personalization: Individualised learning as per the needs of learners.

2 Live Feedback: The learners are provided with live corrections and instructions.

3 Increasing Interaction: Learning in interactive AI applications is interesting and exciting.

4 Teacher Support: AI assists in getting rid of grading and administration workload.

Challenges and Limitations of Artificial Intelligence in Learning and Teaching English Language and Literature

1 Digital Divide: The inequality of access of technology in Indian classrooms.

2 Photo Preparedness: Lack of AI pedagogical training.

3 Ethical Implications: Information privacy and technology addiction.

4 Cultural Relevance: The AI applications typically need to be culturally adjusted to the Indian language and literature.

Pedagogical Implications

Teachers are halfway through the meaningfully integrating AI. The teachers are to be trained and able to use AI. Along with that, AI should not replace, it should complement the role of human instruction especially in literature where learners are required to think and discuss.

Methodology

4. E-Sources.

Participants: The sample of English teachers/students in Indian schools/colleges.

Technologies: Different AI applications

Data Collection: Classroom, surveys, Interviews.

Analysis: Qualitative and quantitative analysis.

Findings

Two out of three students also stated that AI devices turned them into a better learner of language. The teachers also expressed positive attitudes stating that they need training. The AI-assisted literature analysis helped to improve the interpretive skills.

Recommendation: Virtual Teacher training programs must entail AI literacy. Develop local AI content, which can be used at the Indian literature and English language curricula. Offer equal access to the information technology infrastructure.

Conclusion: AI shows a transformative potential of the education of the English language and literature. Its application is prudent when the learning processes are improved and aid both the teacher and the learners. Cases of access, training, and ethics must be addressed in order to achieve a maximum educational benefit of AI in India.

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