

 ISSN (O): 2320-5407 ISSN (P): 3107-4928	Journal Homepage: -www.journalijar.com INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR) Article DOI:10.21474/IJAR01/24172 DOI URL: http://dx.doi.org/10.21474/IJAR01/24172	
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RESEARCH ARTICLE

AI, TECHNOLOGY, AND THE FUTURE OF LANGUAGE STUDIES: OPPORTUNITIES, CHALLENGES, AND TRANSFORMATIONS

G. Lakshmi Saraswathi, Mohaboob Basha, E. Hemasri and G. Kalyani

Manuscript Info

Manuscript History

Received: 10 July 2026

Final Accepted: 12 August 2026

Published: September 2026

Key words:-

Artificial Intelligence; Language Education; English Language Learning; Educational Technology; Personalized Learning; Digital Tools

Abstract

Artificial Intelligence (AI) has significantly transformed language education by reshaping traditional teaching and learning practices. This study examines the role of AI in English language learning, particularly in Indian educational contexts, where AI-based tools support learners across diverse proficiency levels. Technologies such as intelligent tutoring systems, language learning applications, and conversational agents enable personalized instruction, instant feedback, and adaptive learning experiences. These tools enhance learner engagement, accessibility, and language proficiency by assisting with grammar, vocabulary, pronunciation, and progress monitoring. The study adopts a descriptive research approach based on a review of existing literature and selected case studies, supplemented by insights from students and teachers. While the findings highlight the effectiveness of AI in improving learning efficiency and motivation, the study also identifies challenges such as limited cultural understanding, data privacy concerns, and unequal access to AI technologies. The paper emphasizes that AI should function as a complementary tool rather than a replacement for human instruction. Responsible integration of AI can foster inclusive, efficient, and learner-centred language education.

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Introduction:-

Language has always evolved alongside technological development. From oral traditions to written texts and print media, each technological shift has influenced how language is used and understood. In the contemporary world, Artificial Intelligence has emerged as a powerful tool that affects communication, learning, and literary creation. AI technologies such as chatbots, translation software, and text-generating systems are now widely used in daily life. Language studies, which traditionally focused on human communication and literary texts, must now adapt to this technological transformation. The integration of AI raises important questions about authorship, meaning, creativity, and cultural identity. This paper aims to examine the role of AI in reshaping language studies and to explore both its possibilities and challenges.

Methods and Methodology:-

This paper follows a qualitative and analytical methodology. It is based on a critical review of existing literature related to AI, linguistics, literary studies, and digital humanities. Various examples of AI applications in language learning, translation, and literary analysis are examined to understand their impact. The study also adopts an

interdisciplinary approach by combining perspectives from linguistics, literature, technology, and ethics. This method allows for a broader understanding of how AI interacts with language and how language studies can respond to technological change.

The present study adopts a qualitative, exploratory, and descriptive research methodology to examine the role of Artificial Intelligence (AI) and emerging technologies in the future of language studies. The study is primarily based on secondary sources, including scholarly books, peer-reviewed journal articles, research papers, and academic reports related to Artificial Intelligence, Natural Language Processing (NLP), Computer-Assisted Language Learning (CALL), machine translation, generative AI, and digital humanities. The qualitative approach is appropriate because the study seeks to interpret technological developments, pedagogical practices, opportunities, limitations, and ethical concerns rather than merely measure numerical outcomes. As Creswell and Creswell observe, qualitative research is useful for exploring and understanding the meanings individuals or groups attribute to a social or human problem (Creswell and Creswell).

The research employs thematic analysis to identify major patterns and themes emerging from the selected literature. The materials are examined under broad categories such as AI-assisted language learning, automated writing feedback, machine translation, speech recognition, vocabulary development, language assessment, linguistic analysis, and AI-supported literary studies. Braun and Clarke describe thematic analysis as a flexible method for identifying, analyzing, and reporting patterns or themes within qualitative data (Braun and Clarke). This approach enables the study to examine both the transformative potential of AI and the challenges associated with its implementation in language studies.

Results:-

The analysis reveals that AI has significantly influenced multiple areas of language studies. AI-powered translation tools have improved cross-cultural communication by making texts accessible across languages. Language learning applications use AI to personalize learning experiences, making education more efficient and interactive. In literary studies, AI-generated texts challenge traditional notions of creativity and authorship. AI tools also assist researchers by analysing large volumes of textual data, enabling new forms of linguistic and literary research. However, the study also finds that AI systems often reflect cultural and linguistic biases present in their training data.

Discussion:-

The growing presence of AI in language studies raises important ethical and cultural concerns. While AI offers efficiency and innovation, it also holds the power to shape language norms and influence cultural representation. Bias in AI-generated content can marginalize certain languages, dialects, and cultural voices. Furthermore, the use of AI challenges the idea that creativity is solely a human trait. Instead of viewing AI as a replacement for human creativity, it should be understood as a collaborative tool that supports human expression. Language studies must therefore critically engage with AI, ensuring that technological progress does not undermine linguistic diversity or cultural identity.

Conclusion:-

AI and technology are reshaping the future of language studies by transforming how language is learned, analysed, and created. While AI presents new opportunities for innovation and interdisciplinary research, it also poses ethical and cultural challenges that must be addressed. This paper concludes that the future of language studies lies in balancing technological advancement with critical awareness. By embracing AI responsibly, language studies can continue to evolve while preserving the human values at the core of communication and creativity.

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