



## Significance of Artificial Intelligence in Evolving New Techniques in English Language Teaching

**Dr. Surekha Sandeep Patil**

*Assistant Professor, Department of English,*

*Sadguru Gadge Maharaj College, Karad, Satara, Maharashtra (India)*

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### **Abstract:**

*The incorporation of Artificial Intelligence (AI) in education has emerged as a transformative force in redefining pedagogical practices, particularly in English Language Teaching (ELT). In alignment with India's National Education Policy (NEP) 2020, which promotes technology-enabled, learner-centric, inclusive, and multidisciplinary education, AI provides innovative solutions to long-lasting challenges in ELT. The present research paper examines the significance of AI in evolving new instructional techniques in English language teaching and evaluates its contribution to sustainable development. Using a qualitative and analytical research methodology, the study explores AI-driven tools such as intelligent tutoring, adaptive learning systems, computerized assessment, speech recognition technologies, and virtual learning environments. The paper further scrutinizes how AI-supported ELT reconciles with the objectives of NEP 2020 and contributes to Sustainable Development Goals (SDGs), particularly SDG 4 entitled Quality Education. The findings recommend that AI enhances accessibility, equity, learner autonomy, and pedagogical efficiency while supporting environmentally sustainable educational practices. The study concludes that AI, when integrated inclusively and ethically, can significantly strengthen English language education and foster sustainable educational development in India.*

**Keywords:** *Artificial Intelligence, English Language Teaching, NEP 2020, Sustainable Development, Educational Technology*

### **Introduction:**

The global development of English as a lingua franca has sharpened the need for effective English Language Teaching (ELT) methodologies. Traditional classroom-based approaches, often restrained by uniform syllabi and teacher-centred instructions, have proven insufficient to label diverse learner needs in the contemporary educational landscape. The advent of Artificial Intelligence (AI) has initiated new pedagogical possibilities by allowing personalized, interactive, and data-driven language instructions. India's **National Education Policy (NEP 2020)** envisions a comprehensive transformation of the education system by incorporating digital technologies to

enhance access, equity, and quality. The policy highlights the use of emerging technologies such as AI to strengthen experiential learning, critical thinking, and multilingual competency. In this context, AI-based ELT tools have gained prominence for their ability to boost adaptive learning, continuous assessment, and learner engagement. Moreover, education plays a remarkable role in obtaining sustainable development. AI-enabled ELT contributes to sustainability by democratizing access to education, reducing resource consumption, supporting lifelong learning, and fostering global citizenship. This study attempts to critically examine the role of AI in evolving new

techniques in ELT within the framework of NEP 2020 and sustainable development.

**Aim and Objectives of the Study:**

**Aim:**

To scrutinize the significance of Artificial Intelligence in evolving innovative teaching techniques in English Language Teaching in the context of NEP 2020 and sustainable development.

**Objectives:**

1. To study the impact of AI on contemporary English Language Teaching practices.
2. To identify AI-based tools and techniques employed in ELT.
3. To evaluate the alignment of AI-driven ELT with the objectives of NEP 2020.
4. To examine the contribution of AI in ELT towards sustainable development.
5. To explore future prospects and challenges of AI integration in ELT.

**Hypothesis:**

The integration of Artificial Intelligence in English Language Teaching enhances pedagogical effectiveness, inclusivity, and sustainability, consequently supporting the educational objectives of NEP 2020 and contributing to sustainable development.

**Research Methodology:**

The study employs analytical and interpretative methods to examine AI applications in ELT and their relevance to sustainable development.

**Discussion and Interpretation:**

**AI-Based Innovations in English Language Teaching:**

AI has introduced innovative teaching techniques that significantly enhance language

learning outcomes. Adaptive learning systems personalize instructional content according to learners' proficiency levels and learning styles. Intelligent tutoring systems simulate human tutors by offering individualized feedback and guidance. Speech recognition tools help learners in improving pronunciation, fluency, and listening skills, while automated writing evaluation tools provide instant feedback on grammar, vocabulary usage and coherence.

AI-powered chatbots and virtual assistants enable learners to practice conversational English in interactive and anxiety-free environments. These tools boost learner autonomy and continuous engagement by addressing the limitations of traditional ELT methods.

**Harmonization of AI-Driven ELT with NEP 2020:**

NEP 2020 stresses technology integration, multilingual education, inclusivity, and teacher empowerment. AI-driven ELT supports the said

**Objectives by:**

- Promoting personalized and learner-centric instructions
- Helping multilingual learners through AI translation and language support tools
- Bridging educational gaps between urban and rural learners
- Supporting teachers through automated assessment and data-driven insights

AI also contributes to teacher professional competency by offering digital training modules and instructional support systems, in accordance with NEP 2020's vision of continuous teacher capacity building.

**Role of AI-Enabled ELT to Sustainable Development:**

AI-enhanced ELT plays a significant role in promoting sustainable development.

- **Inclusive Education:** AI tools enable access to quality English education for marginalized and remote learners, supporting **SDG 4 (Quality Education)**.
- **Environmental Sustainability:** Digital learning platforms reduce paper usage and physical infrastructure dependency.
- **Lifelong Learning:** AI facilitates continuous learning opportunities beyond formal education systems.
- **Economic Sustainability:** Improved English proficiency enhances employability and workforce competitiveness.
- **Global Citizenship:** AI-supported ELT promotes intercultural communication and global awareness.

Thus, AI-driven ELT contributes to the growth of sustainable, equitable, and resilient educational ecosystems.

#### **Challenges and Ethical Considerations:**

In spite of its advantages, AI integration in ELT presents challenges such as the digital divide, data privacy concerns, ethical use of learner data, and lack of digital literacy among educators. Addressing these issues requires policy support, infrastructure development, teacher training, and ethical frameworks for AI usage, as underlined in NEP 2020.

#### **Conclusion:**

The study concludes that Artificial Intelligence has a transformative impact on English Language Teaching by initiating innovative, inclusive, and sustainable pedagogical

practices. AI-driven ELT reconciles effectively with the objectives of NEP 2020 by promoting learner-centred education, digital literacy, and educational equity. Moreover, AI-enabled ELT contributes notably to sustainable development by supporting inclusive education, environmental sustainability, and lifelong learning. While challenges remain, responsible and ethical integration of AI can ensure that technology serves as a supportive tool rather than a replacement for educators. The future of ELT lies in the balanced amalgamation of human expertise and artificial intelligence to develop a sustainable and inclusive educational environment.

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