VOLUME (3) NUMBER (5) JUNE 2025



The 6<sup>th</sup> Conference for Postgraduate Studies & Research Sector

# Foreign Languages and Literature: Research Perspectives and Educational Trends

28-29 APRIL, 2025







# The Integration of Artificial Intelligence in TEFL: Redefining the Role of Educators in an AI-Driven Classroom



10.21608/smnar.2025.430347

This paper examines transformative role of Artificial Intelligence (AI) in Teaching English as a Foreign Language (TEFL), focusing on its methods, benefits, challenges, and the proposedGlobal Humachine Model. It integrates recent trends and developments in within TEFL as of emphasizing the balance between technological advancements and expertise. The highlights Al's potential to enhance languageeducation while addressing ethical, inclusive, and equitable implementation challenges.



#### Prof. Dr. Nagwa Younis

Professor of Linguistics, Ain Shams University Head of MA TEFL Program, AOU

Email: nagwayounis@edu.asu.edu.eg

#### Introduction

advancement of Artificial Intelligence (AI) has significantly impacted various sectors, including education. In Teaching English as a Foreign Language (TEFL), innovative introduces tools methodologies that enhance experiences and redefine educators' roles. It also incorporates recent trends in Al within TEFL as of 2025, covering methods of integration, benefits, challenges, adoption, and the Global Humachine Model, which seeks to harmonize human expertise with AI capabilities.



### Methods of Al Integration in Education

Tang (2025) emphasizes that AI-driven tools, such as Duolingo and Rosetta Stone, analyze student performance to tailor content, enhancing engagement and retention (p. 2). Similarly, Owan et al. (2023) note that automated assessments reduce administrative burdens, allowing educators to focus on pedagogy (p. 5). These methods align with intelligent tutoring systems, which simulate one-on-one instruction, adapting to individual progress (Younis, 2019). AI integration in TEFL leverages technology to personalize and optimize learning. Key methods include:

- **(a)** Personalized Learning Experiences: Al algorithms analyze student performance and learning styles to tailor content and pacing, ensuring individualized instruction.
- **(b) Automated Assessments:** Al tools grade assignments and provide immediate feedback, reducing teachers' administrative burden and accelerating student learning.
- **(c) Intelligent Tutoring Systems:** These systems simulate one-on-one tutoring, adapting to students' progress and offering tailored exercises and explanations.

By 2025, platforms like Duolingo and Rosetta Stone have become integral, offering adaptive learning experiences that cater to diverse linguistic needs.

#### Benefits of AI in Language Learning

The benefits of AI in TEFL include personalized feedback, simulation of real-life conversations, and accommodation of diverse learning styles. Tang (2025) argues that instant feedback on pronunciation and grammar accelerates language acquisition, particularly for speaking and writing skills (p. 3). Tools like Elsa Speak and FluentU enable low-stakes practice, fostering and confidence. Walter (2024)underscores AI's ability to cater to visual, auditory, and kinesthetic learners, enhancing inclusivity (p. 7). However, Al's application to listening skills remains underexplored, suggesting a gap in current implementations (Tang, 2025, p. 4). Al enhances language acquisition in TEFL through:

- (a) Personalized Feedback: Instant feedback on grammar, vocabulary, and pronunciation accelerates improvement.
- **(b) Simulation of Real-Life Conversations:** Chatbots and virtual assistants enable practice in low-stakes environments, building fluency and confidence. Tools like Elsa Speak and FluentU refine pronunciation.
- **(c)** Accommodation of Diverse Learning Styles: All adapts to visual, auditory, or kinesthetic preferences, increasing engagement.



#### Student Demographics and Proficiency Levels

Al tools are versatile across age groups and proficiency levels. For younger learners, gamified apps like Duolingo Kids engage through interactive play, while advanced tools support older students with complex grammar and vocabulary. Owan et al. (2023) highlight Al's tiered approach, noting that beginners benefit from foundational exercises, intermediate learners refine skills, and advanced learners engage with nuanced content (p. 6). This adaptability ensures Al's relevance across diverse educational contexts. Al tools cater to diverse demographics and proficiency levels:

- **(a) Younger Learners:** Gamified apps like Duolingo Kids engage children through interactive play.
- **(b) Older Students:** Advanced tools provide indepth grammar and vocabulary instruction.

#### (c) Proficiency Levels:

- Beginners focus on basic vocabulary and sentence structures.
- Intermediate learners tackle complex grammar and contextual understanding.
- Advanced learners engage in sophisticated texts and dialogue simulations.

This adaptability ensures Al's applicability across educational contexts.

#### Subjects Best Suited for AI Tools

Tang (2025) notes that speech recognition supports pronunciation and grammar, while tailored exercises enhance reading and writing (p. 2). He emphasizes Al's scalability, making it ideal for large-scale language programs. The impact varies by skill level, with beginners focusing on phonics, intermediate learners on grammar, and advanced learners on dialogue simulations (Owan et al., 2023, p. 7). Al excels in subjects requiring repetitive practice and feedback:

- 1. **ESL:** Supports pronunciation and grammar through speech recognition.
- 2. Foreign Languages: Facilitates immersive learning experiences.
- 3. *Literacy Programs:* Enhances reading and writing skills with tailored exercises.

These subjects benefit from Al's scalability and consistency.

#### Impact of AI on Different Skill Levels

Al supports learners at all levels:

- Beginners: Focus on foundational skills, such as phonics and basic vocabulary.
- Intermediate Learners: Emphasize complex grammar and expanded vocabulary.
- Advanced Learners: Engage with nuanced content and real-time dialogue simulations.

This tiered approach ensures accessibility across proficiency levels.

#### Global Adoption of AI

Al adoption in TEFL varies globally. Countries like Japan, South Korea, and China lead, leveraging Al for personalized learning. However, regions with limited infrastructure face challenges, highlighting the need for equitable strategies. Factors influencing adoption include technological infrastructure, teacher training, and policy support.

#### **Challenges and Limitations**

Al integration faces several hurdles:

- High Costs: Significant investment is required for technology and training.
- **Need for Educator Training:** Teachers need skills to integrate AI effectively.
- Data Privacy Issues: Student data collection raises security concerns.
- Ethical Concerns: Overreliance on technology risks diminishing human connection.
- Equity Gaps: Unequal access to technology exacerbates educational inequalities.

These challenges necessitate careful planning and policy development.

## Evolution of AI in TEFL (2019–2025)

From 2019 to 2025, AI in TEFL evolved from basic apps to advanced platforms integrating speech recognition, natural language processing, and virtual reality. Tools like ChatGPT have revolutionized lesson planning, making resources accessible globally. This reflects a shift to integral components of TEFL.

#### The Global Humachine Model

The Global Humachine Model, proposed by Younis (2019), integrates AI with human expertise, emphasizing cultural inclusivity and collaborative learning. Sanders and Wood (2020) draw upon this, advocating for a synergistic human-machine partnership (p. 45). The model promotes Global Englishes, valuing diverse dialects, and fosters intercultural competence through AI-driven personalized learning and dynamic assessments (Younis, 2019). Walter (2024) supports this approach, noting that AI can handle repetitive tasks, allowing educators to focus on emotional and cultural support (p. 10). The proposed Global Humachine Model integrates AI with human expertise. Key features include:

- Cultural and Linguistic Awareness: Promotes inclusivity by valuing diverse backgrounds.
- Embracing Global Englishes: Values various English dialects beyond native norms.
- Intercultural Competence Development:
   Fosters cultural understanding for global interactions.
- AI-Driven Personalized Learning: Tailors learning paths and reduces anxiety.
- Collaborative Human-Al Interaction: Complements human teachers with Al efficiency.
- Dynamic Assessment and Feedback: Uses Al for continuous progress tracking.

#### Implementation Roadmap

Successful AI integration requires teacher training, infrastructure development, and ethical policies. Owan et al. (2023) stress the importance of continuous evaluation to assess AI tool effectiveness (p. 9). Younis (2019) outlines a roadmap that prioritizes equitable access and cultural sensitivity, aligning with global educational goals. To implement the Global Humachine Model, the following should be taken into consideration:

- **a.** *Teacher Training:* Provide training on AI tools and pedagogy.
- **b.** *Infrastructure Development:* Ensure technology and connectivity access.
- c. Policy Formulation: Develop policies addressing ethical and privacy concerns.
- **d. Continuous Evaluation:** Assess Al tool effectiveness regularly.

This roadmap ensures sustainable and equitable implementation.

Key Aspects of Al Integration in TEFL

Aspect	Description
Methods	Personalized learning, automated assessments, intelligent tutoring systems.
Benefits	Instant feedback, real-life conversation simulation, diverse learning styles.
Challenges	High costs, training needs, data privacy, ethical concerns, equity gaps.
Global Adoption	Varies; led by Japan, South Korea; limited by infrastructure.
Global Humachine Model	Integrates AI and human expertise, emphasizes cultural inclusivity.

#### Conclusion

Al integration in TEFL offers opportunities for personalization and engagement, but poses challenges like cost and equity. The Global Humachine Model provides a balanced framework, ensuring human connection remains central. Continued research, training, and policy development are crucial for realizing Al's potential in TEFL.

#### References

- Owan, V. J., Abang, K. B., Idika, D. O., Etta, E. O., & Bassey, B. A. (2023). Exploring the potential of artificial intelligence tools in educational measurement and assessment. Eurasia Journal of Mathematics Science and Technology Education, 19(8), em2307. https://doi.org/10.29333/ejmste/13428
- Tang, Z. (2025) 'Using artificial intelligence in English language teaching: Benefits and challenges', Journal of Education and Educational Research, 12(2), pp. 1–4. doi:10.54097/e8f9jw03.
- Sanders, N. R., and Wood, J. D. (2020). The secret to AI is people. *Harvard Business Review*. https://hbr.org/2020/08/the-secret-to-ai-is-people
- Walter, Y. (2024). Embracing the future of Artificial Intelligence in the classroom: the relevance of AI literacy, prompt engineering, and critical thinking in modern education. International Journal of Educational Technology in Higher Education, 21(1). https://doi.org/10.1186/s41239-024-00448-3
- Younis, N. (2019) I-Teach: Humachine in ELT, Proceedings of CDELT 36<sup>th</sup> International Conference. CDELT, Ain Shams University.