

Learning English as a Second Language using Artificial Intelligence and Chatbots

Myla Kumar Babu¹, Dr. A. V. Raghuram², Sushma Patnaik³, Dr. K. Dasaradhi⁴,
G. P. Ragini⁵

¹Assistant Professor of English, Department of BS & H, Vignan Institute of Technology and Science, Deshmukhi, Hyderabad, Ranga Reddy, Telangana, India.

²Professor, Department of English, Sri Vasavi Institute of Engineering and Technology, Nandamuru, Krishna District, Andhra Pradesh, India.

³Assistant Professor, Department of First Year Engineering, Sir C.R.Reddy College of Engineering, Eluru, Eluru District, Andhra Pradesh, India.

⁴Professor and Additional Controller of Examinations, V.K.R, V.N.B & A.G.K. College of Engineering, Gudivada, Andhra Pradesh, India.

⁵Assistant Professor, Department of English, Vignan Institute of Technology and Science, Deshmukhi, Hyderabad, Rangareddy District, Telangana, India.

ABSTRACT

AI tools are being used to improve speaking, writing, and reading skills. It can provide new ways of teaching and supports students with goal setting and managing their own learning. AI tools don't seem to be used much for improving listening skills. AI tools can help learners practise English outside class. They can also lessen learners' fear of speaking in English. But we need more research to see if these benefits last without the continued use of AI. Even with rapid changes in technology, traditional lecture-style teaching is common. As ELT is the most common discipline for AI use in education, English language teachers must develop their AI literacy skills. Teachers should also develop learners' AI literacy so that they can understand its limitations and risks. Experts should think carefully about which AI models to use, as models may not include all varieties of English. Clear rules on data privacy and ethics statements for AI in ELT are needed.

Keywords: AI, ELT, English, Learning, Second Language, Skills, Technology, Tools, Training

INTRODUCTION

This study looks into how artificial intelligence (AI) incorporating tools have revolutionized the field of English as a Second Language (ESL) teaching in the context of Transnational Higher Education (TNE). Among the examples are language learning apps, adaptive learning platforms, and virtual tutors that provide 45% and 32% more improvements in the engagement and language proficiency of learners, respectively. The three major advancements made are in the realms of hyper-personalization, multimodal learning, and enhanced natural language processing (NLP). However, the problems of data quality, ethical issues, and lack of supporting infrastructure remain. Future developments hold out greater integration, ethical AI, and improved teacher training. The study points to a balanced approach in leveraging AI for ESL with equitable access, ethical use, and continued professional development. As AI advances, it will turn out to be a key driver for reshaping ESL instruction, providing innovative, personalized, and effective learning experiences to varied learners around the world.

Challenges in ESL Instruction

At the same time, despite the growing demand for ESL, there are a few inherent challenges that come up when the issue of teaching English to non- native speakers is considered. The most acute challenge that practitioners face is that of the diversity of language among ESL learners who find themselves coming from diverse linguistic backgrounds and with a different degree of proficiency in English (Petrovic & Olmstead, 2001). This calls for ESL teachers to take up a differentiated teaching approach; thus, they have to adjust their methods and practices to the level of needs that each learner has. Another major challenge is the cognitive load that comes with learning a second language. For most learners, gaining mastery of English means mastering complex grammatical structures, vocabulary building, and skills in speaking, listening, reading, and writing (Ganaprakasam & Karunaharan, 2020).

This is, in most cases, a very daunting exercise, especially for the learner who is at the same time trying to fit into cultural and social adjustments in English- speaking environments. In addition to these pedagogical challenges, teaching ESL is, in many instances, deficient in terms of available resources and support (Luís, 2024). Most educational institutions, especially in countries where English is not the first language, lack proper infrastructure,

materials, or trained staff for delivering English language instructions effectively. Such deficits in resources often bring harmful effects to learning, in a way that most students fail to achieve fluency, even after several years of study.

Main Challenges with using AI:

1. Sometimes, The Technologies Don't Work As They Should
2. AI Has Limited Capabilities
3. Some Learners Fear Using AI
4. Use Of AI may reflect biases about 'appropriate' language use.

Future research should include more geographies and learner groups, particularly K–12 (school-level education) and adult learning. We need more research on how AI can help with developing receptive skills, particularly listening. We also need to know more about the specific challenges around AI use in ELT. Finally, we need more studies on how AI can be used for assessment.

Role of AI Tools

AI tools are revolutionising the way we approach work, study, communication, health and travel. AI has also emerged as an invaluable resource in education, especially for language teaching and learning. For one, AI can handle repetitive tasks, giving teachers more time to focus on what they do best—teaching! AI can also provide personalised feedback to students, adapting to each learner's pace and style, which is something that's hard to achieve in a traditional classroom setting. For learners, AI can also provide a helpful and interactive study tool that encourages more learner directed study and leads to more autonomous learners overall. AI can also create lesson plans and lesson content, and is an invaluable resource for working with authentic material and more bespoke activities directly tailored to your learners' level, age and preferences. In addition, did you know that English Language Teaching (ELT) is the most common use of AI in education? It's true! According to a study by Crompton & Burke (2023), language learning dominates the application of AI in the educational sector. This makes it clear that there's a lot of potential for AI to enhance our teaching methods.

However, despite the clear advantages of integrating AI into language teaching and learning, over half of educators, 59%, are not currently using ChatGPT and other artificial intelligence tools, according to an EdWeek Research Center survey. One reason for this is that teachers simply don't know where to start, or don't have the time to research and learn how to use all of these new tools.

AMAZING TOOLS USEFUL FOR LANGUAGE TEACHERS AND LEARNERS



ChatGPT for Teachers

Overview: ChatGPT, developed by OpenAI, is a versatile AI large language model that can assist language teachers in a multitude of ways. It's capable of generating lesson plans, creating engaging learning materials, creating rubrics, generating feedback and simulating conversation partners for language practice.

How to Use It:

Lesson Planning: Input topics or learning objectives, and ChatGPT can generate detailed lesson plans, complete with activities and discussion questions.

Material Creation: Generate reading passages with accompanying comprehension and vocabulary activities, writing prompts, conversation starters, questionnaires, information gaps – anything you can think of – tailored to your students' proficiency levels.

Q&A: Use ChatGPT to answer students' questions about grammar, vocabulary, and language usage, providing instant, detailed explanations.

When using ChatGPT, providing detailed prompts and customised instructions is crucial for getting the most effective and relevant responses. Detailed prompts help the AI understand the context and specific requirements of your request, leading to more accurate and useful outputs. For example, instead of simply asking ChatGPT to "create a lesson plan," you might specify: "Create a lesson plan for an intermediate ESL class focused on the past perfect tense, including

objectives, activities, and assessment methods.” This level of detail helps ensure that the AI generates content that meets your exact needs. Similarly, when seeking explanations or examples, providing context or specifying the complexity level can result in more tailored and relevant responses. Clear instructions and context make ChatGPT a powerful tool in your teaching arsenal.

EXAMPLE PROMPTS

Prompt: “Create a 45-minute lesson plan for an intermediate ESL class focused on the past perfect tense. The lesson should include a warm-up activity, a detailed explanation of the tense, interactive practice activities, and a short assessment at the end. Also suggest homework.”

Prompt: “Write a 300-word reading passage suitable for advanced ESL learners about the impacts of climate change on coastal cities. Include at least five new vocabulary words for the students to learn, and provide a brief glossary for these words.”

Prompt: “Explain the difference between ‘few’ and ‘a few’ with at least three example sentences for each term. The explanation should be suitable for intermediate ESL students.”

Prompt: “Develop a dialogue between two people meeting for the first time at a conference. One person should be a native English speaker, and the other a non-native speaker. The dialogue should help practise introductions.”

Prompt: “Design a speaking activity for beginner ESL students to practise describing their daily routines. The activity should include a list of common daily activities, a template for how to structure their descriptions, and tips on using the present simple tense.”

Bonus Tip: You can also ask ChatGPT for advice on how to improve your prompts. For example:

Prompt: “How can I improve the prompt ‘Create a lesson plan for an intermediate ESL class’ to get more detailed and useful responses?”

Expected Output: Suggestions on adding specifics such as lesson duration, focus areas, types of activities, and assessment methods to make your prompt more precise and effective.



Twee for Teachers

Overview: Twee is an AI tool designed specifically for English language teachers. It allows educators to create a wide variety of tailor made tasks and activities instantly. It works especially well with authentic materials e.g. videos from YouTube or Ted Talks.

How to Use It:

1. Create comprehension questions, transcripts and gap fills for any YouTube video in just a few seconds. Simply copy the URL from the video you want to use and instantly create activities you can use in class alongside the video. I like to use newsreels from the national Irish news broadcaster to give students practice in listening to various Irish accents.
2. Generate dialogues, stories, letters or articles on any topic and for any level.
3. Quickly create multiple choice questions, open questions, and True/False statements
4. Brainstorm vocabulary related to the topic and create fill-in-the-gap and open-the-brackets vocabulary exercises.
5. Simplify or upgrade the language in a text instantly.



Diffit for Teachers

Overview: Diffit is an AI tool that helps teachers create differentiated learning materials tailored to various proficiency levels. Alongside Twee, this tool is really a game changer for creating bespoke material specifically tailored for your exact needs, and works wonderfully with authentic materials.

How to Use It:

Topic: You can simply enter a topic and select the level or grade that you want, and Diffit will instantly generate a reading passage with key vocabulary words and comprehension questions. You can then transform these into a wide variety of student centred vocabulary, reading, writing and collaborative tasks which you can download to print or export to different platforms such as Google Classroom.

Link: You can also paste a link to a Youtube video, or a website URL and it will instantly generate the accompanying reading passage, key vocabulary and comprehension questions.



Wordwall for Teachers

Overview: Wordwall is a versatile tool that allows teachers to create interactive and engaging activities for language learners. Whether you want to create a quick quiz, a matching game, or a word search, Wordwall has you covered with a wide array of templates that can be easily customised to suit your lesson objectives.

How to Use It:

Interactive Games: Transform your vocabulary lists into fun and interactive games like “Match Up” or “Whack-a-Mole,” which can be used in class or assigned as homework.

Quizzes: Create quick quizzes to check comprehension and reinforce learning. These can be multiple choice, true/false, or short answer formats.

Printable Activities: Generate printable worksheets and activities that can be used for in-class exercises or take-home assignments.

Bonus Tip: Combine Wordwall with ChatGPT for even greater efficiency and creativity. Use ChatGPT to generate lists of definitions and vocabulary, or a series of questions and answers, then copy and paste them into a Wordwall activity template. This integration can save you time and help you create more detailed and comprehensive learning materials tailored to your students’ needs.



ChatGPT with Voice for Students

Overview: ChatGPT with voice integration is a game-changer for language learners, offering an interactive way to practise speaking and listening skills. This tool allows students to engage in spoken conversations with an AI, simulating real-life dialogue situations.

How to Use It:

Speaking Practice: Students can practise their speaking skills by having conversations with ChatGPT, receiving immediate feedback on pronunciation and grammar.

Listening Comprehension: Engage with spoken responses to improve listening skills and understand natural language use.

Role-playing: Simulate various scenarios, such as ordering food in a restaurant or asking for directions, to build confidence in using English in everyday situations.



Mizou for Students

Overview: Mizou is a wonderful tool where you can create your own chatbot with specific learning objectives and criteria, so that your students can engage with it to practise speaking skills. It also protects student data – it does not use student data to train its AI models nor do students need to login to use it.

How to Use It: Simply create an account and get started creating your own chatbot using AI. Enter your learning objectives and grade or level and watch the magic happen! You can choose various roles for the chatbot too – conversation practice, role plays, interactive quizzes and many more.



GetPronounce for Students

Overview: GetPronounce is an AI tool designed to help learners perfect their pronunciation. It offers instant feedback on spoken English, making it a valuable resource for improving accuracy, accent and clarity.

How to Use It:

Pronunciation Practice: Record and compare your pronunciation with native speakers.

Feedback and Correction: Receive detailed feedback on areas of improvement and practise specific sounds or words that are challenging.

Interactive Exercises: Engage in exercises that focus on intonation, stress, and rhythm of English.



Quizlet for Students

Overview: Quizlet is a widely-used AI enhanced tool for studying and memorising vocabulary through flashcards and various study modes. Its interactive features make it a favourite among language learners.

How to Use It:

Flashcards: Create or use existing sets of flashcards to study vocabulary and concepts.

DID YOU KNOW? Spaced retrieval practice is one of the most effective ways to learn and retain new vocabulary – digital flashcards are ideal for this.

Learn Mode: Use Quizlet's adaptive learning feature that tracks your progress and focuses on areas where you need improvement.

Games: Engage with fun games like "Match" and "Gravity" to make learning more enjoyable.

Testing: Take practice tests to assess your knowledge and readiness.

These are our current top 7 tools, have you got any more you use? We'd love to hear from you.

Sarah Corrigan is the Assistant Director of Studies in ATC Dublin, ATC's Erasmus+ Co-ordinator, and an experienced teacher trainer.

CONCLUSION

Artificial intelligence (AI) is transforming the assessment of English as a Foreign language (hereinafter ESL) learning by combining traditional pedagogical methodologies with advanced technologies (Huang, 2020) to provide more accurate and personalized assessments (Al-Jaward, 2023). These tools allow large volumes of data to be analyzed in real time, providing teachers with detailed information about each student's strengths and weaknesses, facilitating rapid adjustments in teaching methods (Chinda et al., 2022; Lesia et al., 2022). Moreover, these digital tools are being examined to see if they are really effective for language learning (Rosell, 2021), as Papua app (Peña-Acuña and Crismán-Pérez, 2022) that includes AI for developing pronunciation in second language. Questionnaire has been developed (Henrichsen, 2018) to investigate the effectiveness of computer assisted pronunciation of second language learning through apps. An AI-driven teaching approach differentiates between adaptive second language learning applications, which personalize content, and interactive applications, which encourage conversational practice and real-time feedback. There are chatbots for conversation, tutoring, simulation, recommendation and emotional support, using natural language processing and machine learning technologies to enhance language learning. There are language learning chatbots that use AI, AR and gamification. Some combine these technologies, such as Duolingo, which incorporates AI and gamification, and Mondly, which uses augmented reality (hereafter AR) and gamification. The study indicates that emerging technologies, in particular chat with artificial intelligence (AI), adaptive or interactive, combined with other technologies, as AR, or teaching methodologies, as gamification, are revolutionizing English language teaching from a teaching perspective (Huang, 2020; Mabuan, 2024). This study finds that pre-service teachers are being introduced to using some variety of types of chatbots that are available for second language learning, thanks to its ease of use and because they are perceived as useful (Belda-Medina and Calvo-Ferrer, 2022). Teachers in training use complex chatbots in design, incorporating adaptive, interactive and emotional functions and teaching methods as gamification. They have the advantage of being digital natives incorporating them naturally into their learning and teaching practice perceiving the learning advantages of these chatbots.

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