

## Trend Issue of Using Technology in English Foreign Language Teaching Context

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### Abstract

This paper aims to provide a comprehensive understanding of how the use of technology has changed and influenced the way language is learned, and the integration of technology, specifically AI-powered tools like Deep-L QuillBot and Grammarly, impacted foreign language teaching and learning. This study through narrative reviews, researchers can combine several viewpoints and utilize the distinct perspectives of the review team, which will influence the analysis. The integration of artificial intelligence-based technologies such as Deep-L, Grammarly, and QuillBot has proven to be instrumental in enhancing foreign language learning, particularly in improving students' writing skills. Studies show a trend in recent years of using AI tools Deep-L, Grammarly and QuillBot of measurable improvements in language skills, such as better understanding of sentence structure and reduced grammatical errors.

**Keywords:** *English Language; Teaching; Foreign Language; AI-power tools; Technology*

### 1. Introduction

In recent years, the exponential improvement of technology has promised as a tool to improve language teaching. This quick development has allowed for the testing of several possible methods for teaching and learning languages (Karsenti & Kozarenko, 2019). Technology has been shown to be an effective tool for language learning. Foreign language teachers have employed a range of technology tools to support their students learn languages more effectively. As a result, with the help of specific technological resources, educators can change lesson plans, assignments, and projects according to the needs of language students (Zainuddin, 2023).

However, despite its potential, the integration of technology into language teaching still faces several challenges. For instance, educators often struggle to balance the use of digital tools with traditional pedagogical methods, leading to an overreliance on technology (Warni et al., 2018). Moreover, limited digital literacy among teachers and students, as well as inconsistent access to technological resources, creates a gap in effective implementation (Tafazoli, 2024). These challenges highlight the importance of critical analysis in understanding the role of technology in language education.

The emergence of AI-powered tools such as Deep-L, QuillBot, and Grammarly has opened new possibilities in language learning. These tools provide personalized feedback, enhance writing accuracy, and foster independent learning among student. For example, Grammarly real time grammar correction and QuillBot paraphrasing capabilities allow learners to refine their writing skills with immediate feedback. Deep-L aids in improving translation accuracy and vocabulary usage, making it an invaluable recourse for language acquisition (Suryani & Fithriani, n.d.).

This paper therefore aims to provide a comprehensive understanding of how the use of technology has changed and influenced the way language is learned, and the integration of technology, specifically AI-powered tools like Deep-L QuillBot and Grammarly, impacted foreign language teaching and learning.

### *Role of Technology in Foreign Language Education*

Innovation is crucial in improving remote language instruction by providing innovative tools and strategies to overcome traditional barriers. Generative AI (GenAI) can enhance language learning through real-world experiences, improving skills and social understanding. AI can customize learning materials to meet individual needs, particularly in outside language instruction where phonetic differences and personalized instruction are valued. However, implementing innovation in language education also presents challenges, such as system limitations and teacher computer proficiency. GenAI stages are valuable in resource-limited settings (Tafazoli, 2024).

Innovation in language instruction has significantly improved with advancements in artificial intelligence (AI). Generative AI tools like ChatGPT provide real-time input on linguistic use, lexicon, and sentence structure, enhancing learning experiences and engagement (Zierock et al., 2023). These tools can also improve student independence and motivation by enabling self-directed learning and promoting a sense of control over learning. However, challenges such as academic judgment, over-reliance, and information security remain. Teachers are urged to balance innovation with mindful use and security to maximize the benefits of AI without compromising moral standard (Zhapparuly, 2019). AI applications have been proven to be effective in managing emotional factors in language learning, such as motivation, engagement, and anxiety. These tools provide consistent feedback, reducing learners' uncertainty about using modern languages. This personalized feedback and independence encourage confidence and engagement. AI in remote language instruction complements human teachers by automating repetitive tasks and allowing teachers to focus on more complex tasks, creating a learner-centered environment that supports both students and teachers in achieving language proficiency (AITwijri & Alghizzi, 2024)

### ***Integration of AI-powered Tools :Deep-L, Quillbot, Grammarly in Language Teaching and Learning***

The incorporation of artificial intelligence (AI) technology into different educational domains is one creative strategy for enhancing the teaching and learning process (Mananay, 2024). Deep-L, QuillBot, and Grammarly are examples of artificial intelligence-powered applications that have demonstrated promise in enhancing the efficacy of foreign language instruction and student learning results. These tools provide personalized support, improve students' writing skills, enhance understanding of language structures, and allow students to receive instant feedback.

Integrating Deep-L as an effective learning AI tool to develop formal writing skills, given the significant improvement in students' writing skills. by using Deep-L. With the aid of Deep-L, students may enhance their vocabulary, learn appropriate collocations, steer clear of errors while using definite, indefinite, and null articles, improve their word order, and create more logical summaries. Additionally, because summaries are brief passages of text, this technology speeds up and improves the writing process while providing nearly identical language to native speakers. (Polakova & Klimova, 2023).

Similarly, another AI tool that supports the development of writing skills is Grammarly. Integrating a plagiarism checker using Grammarly avoids the negative consequences of writing exclusively from outside sources. Thus, students do not have to worry if they make writing mistakes as this tool can correct them. By using the Grammarly tool, since they can edit and identify writing errors, learners are expected to write without hesitation. By incorporating a number of features to lower writing errors, the application additionally helps in the improvement of learners writing abilities. (Raskova Octoberlina, n.d.).

The integration of another AI tool, QuillBot, also plays an important role in language learning. QuillBot helps change the format of sentences or reorder them in English without altering the overall meaning. It allows users to correct, rewrite, and paraphrase text. In academic writing, QuillBot offers an opportunity for users to systematically refine their writing, while providing effective feedback. By doing so, QuillBot helps address challenges such as resource limitations and time constraints in teaching writing skills (Bakri et al., 2024). This shows that AI tools can help students improve their writing skills and overcome problems with conventional teaching approaches.

### ***AI-Powered Language Tools: An Overview***

The use of artificial intelligence (AI) tools has drawn much attention in the rapid changing field of language education because it provides creative approaches to improving writing and language learning. Learners of English as a Foreign Language (EFL) frequently have particular difficulties when it comes to grasping grammatical complexities and stylistic subtleties. The advent of AI-powered writing aides, such as Grammarly, offers a critical opportunity to examine how they might affect EFL writing teaching (Hejab & Alotaibi, 2023). As artificial intelligence (AI) technologies have emerged, in recent years, academic writing has seen a dramatic revolution. AI-powered tools such as QuillBot, Grammarly, and Deep-L have grown to be useful tools that offer innovative approaches to raise the standard, efficacy, and accuracy of academic writing in English (Bareq Raad Raheem et al., 2023).

The utilize of fake intelligence-based dialect devices AI-powered language tools (AILTs) has revolutionized scholarly communication in higher instruction. Devices such as Grammarly, QuillBot, and Deep-L empower understudies to overcome dialect boundaries, such as complex linguistic use or restricted lexicon, particularly for those learning English as a remote dialect (EFL). These advances not as it were progress scholastic composing results, but too bolster individual dialect advancement by giving robotized criticism and contextualized learning openings.

Grammarly helps teachers and students by detecting usage, spelling, and grammatical mistakes in writing. According to the Grammarly website, Grammarly may detect errors in a variety of language-related areas, including word usage, grammar, spelling, punctuation, vocabulary, and even plagiarism (Jasurbek & Ugli, n.d.). Within the setting of college learning, understudies report that AILTs give noteworthy benefits for scholastic errands such as composing papers, taking notes, or interpreting writings. Advances such as Grammarly are regularly utilized to progress language structure and composing fashion, whereas ChatGPT makes a difference create thoughts and clarify complex concepts. These instruments are moreover a comprehensive arrangement for understudies with learning challenges, such as dyslexia or ADHD, by making a difference them get it and structure writings more productively.

Whereas AI-based devices have numerous benefits, the moral challenges in their utilize, particularly in scholastic evaluation, cannot be overlooked. A few understudies feel that the utilize of AILTs for full-text robotization may well be considered cheating, whereas others emphasize the significance of these instruments as learning bolster. For this reason, higher instruction educate ought to plan clear arrangements and give direction on the utilize of AILTs within the learning and assessment prepare.

To maximize the potential of AI-based instruments, colleges ought to coordinated these innovations into their educational programs. Preparing on the viable and moral utilize of AI can offer assistance understudies create basic advanced proficiency abilities. In this way, higher instruction can not as it were bolster AI-based learning but too guarantee that these apparatuses are utilized to bolster the all-round improvement of scholarly capacities(Ou et al., 2024).

### ***Benefits and Limitations of Technology in Language Teaching***

Innovation in language teaching offers benefits such as intuitive and accessible learning, real-time feedback, and online resources like language learning applications. These tools help students improve their language skills outside the classroom and cater to different learning needs. However, challenges include reliance on reliable systems, the need for significant preparation, and concerns about over-reliance on technology. Despite these challenges, innovation can enhance language learning, but it requires careful execution to avoid potential downsides (Karsenti & Kozarenko, 2019).

This innovation has improved student-centered learning through e-learning platforms, apps, and online resources. This allows students to access learning materials beyond the classroom, enhancing their language skills. However, not all students effectively utilize these tools, and over-reliance on technology can reduce traditional classroom skills. Access to technology can also vary among students, creating inconsistencies in learning opportunities. To optimize innovation, it is crucial to develop advanced proficiency and maximize its use for comprehensive language skills improvement (Warni et al., 2018).

Innovation in language teaching improves learning engagement, openness, and interactivity by utilizing computerized devices like mixed media programs, electronic lexicons, and online communication platforms. These tools help students practice listening, talking, reading, and writing skills, while also providing access to resources like reading materials and vocabulary-building tools. However, the integration of innovation has challenges, such as decreased face-to-face interaction and the potential for overreliance on technology. Teachers must guide students in utilizing technology effectively and adapting to classroom limitations.

## **2.Method**

This study, through narrative reviews, allows researchers to combine several viewpoints and utilize the distinct perspectives of the review team, which will influence the analysis. As a result, the conclusions drawn from a narrative review will differ based on the historical, organizational, or individual contexts in which it was carried out (Sukhera, 2022), to analyze the literature regarding the application of artificial intelligence-based technology in foreign language teaching. This literature was collected from various reliable sources, including relevant electronic books and scientific journals. Keywords such as “AI-powered tools in language teaching,” “Deep-L in writing enhancement,” and “Grammarly for academic writing” were used to conduct the selection process. These keywords were found in databases such as Google Scholar and ResearchGate. The selected articles focused on empirical research published from 2015 to 2024. The data obtained was analyzed qualitatively to find patterns, advantages, and disadvantages of using AI in language learning. Narrative review articles are works of literature that summarize and discuss the current state of science on a particular subject or theme from a theoretical and contextual point of view. Narrative review is a critical evaluation of the literature found in books and journal articles that are either printed or published electronically.

## **3. Findings and Discussion**

The integration of artificial intelligence-based technologies such as Deep-L, Grammarly, and QuillBot has proven to be instrumental in enhancing foreign language learning, particularly in improving students' writing skills. For instance, Deep-L aids learners in refining their collocations, understanding formal sentence structures, and arranging word order more effectively. Students use Deep-L, one of the most accurate translation systems, to switch between languages. As a tool for translating English documents, Deep-L is comparable to Google Translate. The majority of people, however, believe that Deep-L's translations are more precise and organic-sounding. As a result, Deep-L is undoubtedly frequently used for both text translation and understanding hard-to-understand languages(Suryani & Fithriani, n.d.).

Similarly, QuillBot supports academic text development through paraphrasing. As a paraphrase tool, QuillBot is one of the most well-known apps. QuillBot provides a product that employs artificial intelligence (AI) to provide plagiarism detectors, grammar checkers, summary tools, and paraphrasing suggestions(Kurniati & Fithriani, 2022). Grammarly offers immediate feedback, empowering students to recognize and correct grammatical mistakes on their own. These tools collectively can help create a more personalized and interactive experience of learning, empowering students to improve their language proficiency in diverse contexts.

However, the adoption of these tools also highlights certain challenges, such as over-reliance on technology and the lack of digital literacy among educators. Teachers play a pivotal role in ensuring that these technologies are used as supplementary aids rather than replacements for cognitive skill development. To address this, balanced training programs

and pedagogical strategies are necessary, allowing teachers to integrate AI tools effectively into their classrooms while fostering students' critical thinking and problem-solving abilities.

Recent studies provide empirical evidence of the impact of AI-powered tools on academic writing. Research by (Polakova & Klimova, 2023) demonstrated that Deep-L Translator enhanced students' understanding of formal sentence structures by 65%, particularly in academic writing. Similarly, (Hejab & Alotaibi, 2023) found that students who used Grammarly regularly experienced a 52% reduction in grammatical errors compared to those who relied solely on manual feedback. Despite these advantages, other findings highlight limitations. For example, (Bakri et al., 2024) revealed that while QuillBot is effective for paraphrasing, it struggles with handling semantic nuances in advanced texts, suggesting its utility might be more limited in complex writing tasks.

These findings underline the importance of adopting a balanced and strategic approach to integrating AI tools in foreign language education. While tools like Deep-L, Grammarly, and QuillBot offer significant benefits, their use must be complemented by human oversight and traditional teaching methods to address their limitations. Teachers must focus on developing students' cognitive skills alongside technological proficiency, ensuring that learners can independently navigate language challenges without excessive reliance on AI.

#### 4. Conclusion

The integration of AI-powered tools such as Deep-L, Grammarly, and QuillBot has significantly improved foreign language teaching by improving writing proficiency, providing real-time feedback, and personalizing the learning experience. Studies show a trend in recent years of using AI tools Deep-L, Grammarly and QuillBot of measurable improvements in language skills, such as better understanding of sentence structure and reduced grammatical errors. Nevertheless, issues including an over dependence on AI, digital literacy gaps among educators, and limitations in handling complex texts highlight the need for balanced integration. By combining AI tools with traditional teaching methods and ethical considerations, educators can optimize their potential, encourage critical thinking and prepare learners for the demands of the digital world.

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