



MODERN PROBLEMS IN EDUCATION AND THEIR SCIENTIFIC SOLUTIONS

THE IMPACT OF AI-BASED TOOLS ON EFL STUDENTS' WRITING ACCURACY

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Abstract. *The rapid advancement of artificial intelligence (AI) has significantly influenced educational practices, particularly in the field of English as a Foreign Language (EFL). Among the various language skills, writing remains one of the most challenging for EFL learners due to its complex cognitive and linguistic demands. In recent years, AI-based tools such as automated grammar checkers, intelligent writing assistants, and AI-powered feedback systems have been increasingly integrated into EFL writing instruction. This article examines the impact of AI-based tools on EFL students' writing accuracy, focusing on their potential to enhance grammatical correctness, lexical choice, and overall writing quality.*

Keywords: *artificial intelligence, EFL writing, writing accuracy, automated feedback, language learning technology*

The growing role of technology in education has transformed the way languages are taught and learned, with artificial intelligence emerging as one of the most influential innovations in recent years. In EFL contexts, writing is often considered the most demanding skill for learners, as it requires mastery of grammar, vocabulary, coherence, and accuracy, all within a second or foreign language. Traditional approaches to teaching writing have typically relied on teacher-centered feedback and repetitive practice, which can be time-consuming and limited in immediacy. As a result, many learners struggle to improve their writing accuracy, particularly in contexts where class sizes are large and individualized feedback is limited.

Artificial intelligence in language education is grounded in theories of second language acquisition and cognitive learning that emphasize feedback, noticing, and learner autonomy. According to Schmidt's Noticing Hypothesis, learners must become aware of linguistic forms in order to acquire them effectively. AI-based tools contribute to this process by highlighting errors and suggesting corrections in real time, thereby drawing learners' attention to gaps between their interlanguage and the target language. This immediate feedback enhances learners' awareness of grammatical and lexical inaccuracies, which is essential for improving writing accuracy.

From a sociocognitive perspective, AI tools also function as mediational tools that support learning through interaction. While traditional feedback often occurs after task completion, AI-based feedback allows learners to engage in a continuous cycle of writing, reflection, and revision. This aligns with constructivist views of learning, which emphasize active engagement and self-regulation. By enabling learners to independently





MODERN PROBLEMS IN EDUCATION AND THEIR SCIENTIFIC SOLUTIONS

revise their writing, AI-based tools foster a sense of responsibility and ownership over the learning process, which is particularly valuable in EFL writing contexts.

AI-Based Tools and Writing Accuracy. Writing accuracy in EFL refers to the correct use of grammatical structures, appropriate vocabulary, and conventional language forms. AI-based tools are particularly effective in addressing these aspects, as they are designed to detect and correct surface-level errors such as subject–verb agreement, tense usage, article misuse, and spelling mistakes. Many AI writing assistants also provide explanations or alternative suggestions, which help learners understand the nature of their errors rather than simply correcting them mechanically.

Research has shown that frequent exposure to accurate linguistic input and corrective feedback can lead to measurable improvements in learners' writing accuracy. AI-based tools provide consistent and unbiased feedback, which reduces learners' dependence on teachers and allows for repeated practice outside the classroom. As learners revise their texts based on AI feedback, they gradually internalize correct language patterns, leading to more accurate writing over time. Moreover, AI tools can track learners' progress and highlight recurring errors, enabling both learners and teachers to identify areas that require further attention.

Pedagogical Benefits of AI-Based Tools in EFL Writing. One of the most significant benefits of AI-based tools in EFL writing instruction is the immediacy of feedback. Unlike traditional teacher feedback, which may be delayed due to workload constraints, AI tools provide instant responses that support timely revision. This immediacy helps maintain learner motivation and encourages experimentation with language, as students are less afraid of making mistakes when they know they can receive immediate support.

Another important advantage is the promotion of learner autonomy. AI-based tools empower learners to take control of their learning by enabling them to self-edit and revise their writing independently. This shift from teacher-centered correction to learner-centered revision encourages deeper engagement with the writing process. Additionally, AI tools can accommodate individual learning needs by adapting feedback to learners' proficiency levels, making them particularly useful in mixed-ability EFL classrooms.

Despite their advantages, the use of AI-based tools in EFL writing instruction presents several challenges. One major concern is the risk of overreliance on automated feedback, which may lead learners to accept corrections passively without fully understanding them. In such cases, improvements in accuracy may be superficial and short-lived. To address this issue, learners must be encouraged to critically evaluate AI feedback and reflect on the reasons behind suggested corrections.

Ethical concerns, including academic integrity and data privacy, also need to be considered when integrating AI tools into educational contexts. Teachers and institutions





MODERN PROBLEMS IN EDUCATION AND THEIR SCIENTIFIC SOLUTIONS

must establish clear guidelines for responsible use to ensure that AI supports learning rather than undermines it.

Conclusion. The integration of AI-based tools into EFL writing instruction has a significant impact on improving students' writing accuracy by providing immediate, consistent, and personalized feedback. These tools support learners in identifying grammatical and lexical errors, fostering greater awareness of language use and encouraging independent revision. When effectively integrated into pedagogical practices, AI-based tools can enhance learner autonomy, motivation, and writing performance while allowing teachers to focus on higher-order instructional goals.

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