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I-CReST 2025:042-019 – The Influence of Technology on L2 Learners' Writing Skills in the Era of AI

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ABSTRACT

Artificial Intelligence (AI) writing tools such as ChatGPT and QuillBot transformed the landscape of writing assistance through their capabilities in grammar enhancement, idea organization, and content refinement. These innovative tools delivered instantaneous feedback, creative input, and improvement suggestions, enabling users to create refined and coherent content with increased efficiency. Their significance grew substantially in both educational and professional environments, particularly benefiting individuals who struggled with common writing challenges including grammatical accuracy, vocabulary limitations, and organizational difficulties. This quantitative study investigated the impact and utilization patterns of AI writing tools among Second Language (L2) students, employing a questionnaire-based methodology. The research examined the tools' effectiveness in enhancing writing competencies, error identification, and overall quality of written work, with specific attention to vocabulary expansion, sentence construction, idea organization, and stylistic elements. Through analysis of L2 student experiences, the study explored how AI tools enhanced creative expression, writing style development, and student engagement in the writing process. The research objectives included evaluating the extent of AI tools' influence on L2 students' writing capabilities, identifying specific advantages these tools offered, and understanding their role in addressing the challenges faced by L2 students in traditional writing tasks. The investigation was particularly relevant given the increasing adoption of AI tools in academic settings, where writing proficiency remained crucial across various disciplines. Findings indicated widespread adoption and positive impacts of AI writing tools, particularly in areas of skill development, quality enhancement, and writing efficiency. The personalized feedback and targeted support provided by these tools contributed significantly to building L2 students' confidence and competence in writing. This research underscored the transformative role of AI tools in contemporary writing instruction, highlighting their contribution to skill development and their potential to prepare L2 students for academic and professional success.

Keywords: AI writing tools; Writing skills development; L2 students; Educational technology