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Using AI Technologies to Enhance Grade 10 Students' Vocabulary

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This study explores a multimedia approach to enhance vocabulary acquisition in educational settings through the integration of AI technologies - Copilot (C) and Speechelo (S) to create talking flashcards with a view to enhancing traditional Flashcards (F) in educational settings. Copilot generates visual representations of vocabulary collected from Global Success 10, reinforcing word meanings and contextualizing concepts. Speechelo converts texts into spoken language, catering to auditory learners and facilitating comprehension through multi-modal input. Using a mixed-methods approach, the study combines quantitative analysis of vocabulary retention rates with qualitative feedback from students. Pre- and post-assessments measure the multimedia intervention's impact on vocabulary acquisition. Results demonstrate significant improvements in vocabulary retention and comprehension among students exposed to the multimedia materials. Qualitative feedback emphasizes heightened engagement and enthusiasm. By integrating AI technologies with traditional methods, this research presents a promising approach to enhancing vocabulary acquisition in Grade 10 English classrooms. It provides a dynamic platform for students to develop essential language skills, advancing innovative pedagogical practices for academic success and lifelong learning.
Keywords: Multimedia approach, AI technologies, Copilot, Speechelo, Flashcards

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