IMPLEMENTING AI IN WRITING CLASSES: BENEFITS AND CHALLENGES (GRAMMARLY)

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Abstract: *Integrating Artificial Intelligence (AI) into education, namely writing classes offers promising avenues for upgrading education outcomes. This paper investigates the advantages and challenges associated with implementing AI tools in writing lesson. By employing a mixed methods approach, we analyze the experiences of students in utilizing AI-generated writing technologies. To carry out this scientific research we also used qualitative data approach by analyzing previous studies and we collected data regarding the potential benefits of AI-driven writing tools and problems that students face during utilization of AI. The findings of the study highlight the multifaceted advantaged of AI, including personalized feedback, real-time support, improved writing fluency, automated grading system of AI, and increased engagement. However, the study shows that challenges, such as ethical concerns, over-reliance on AI, privacy concerns, algorithmic biases, and technological limitations also emerge. Through a comprehensive examination of these factors, this research contributes to a deeper understanding of the complexities surrounding AI integration in writing education and provides insights for effective implementation strategies.*

Keywords: *Artificial Intelligence, AI writing tools, writing skills, writing instruction, benefits, challenges, integration of AI.*

Artificial Intelligence (AI) is increasingly being used in education, including writing classes. AI is a rapidly growing field that is having a significant impact on education, including writing instruction. AI-powered tools can be used to provide students with personalized feedback, automated grading, real-time support, and improved writing skills. In recent years, the integration of Artificial Intelligence technologies into educational settings has sparked considerable interest and debates. One area of particular focus is the utilization of AI in writing classes, where its potential benefits and challenges have become subject of exploration. This article delves into the multifaceted landscape of incorporating AI tools in writing education, shedding light on both the opportunities they present and the hurdles they pose. By examining the intersection of AI and writing instruction, we aim to provide insight into how these technologies can enhance learning outcomes while navigating the complexities inherent in their implementation.

After analyzing various AI writing assistant tools, such as Quilbot, ProWritingAid, Grammarly, and Turnitin Feedback Studio, we chose Grammarly for

its user-friendly interface, comprehensive feedback on grammar and style, and compatibility with our learning management system. During one month, we integrated Grammarly into sophomore students' writing classes at UzSWLU by incorporating it into weekly writing assignments. The process included students using Grammarly to revise their writings before submitting them to peer review. This process allowed students to identify and address common writing errors by receiving personalized feedback.

Before the process of implementing AI tool- Grammarly in writing classes, instructors participated in training workshops where they learned how to integrate the tool into their teaching practices. Furthermore, students received a tutorial on using Grammarly and had access to online support resources throughout one week. To protect students' privacy, we ensured that Grammarly's data collection practices complied with our institution's privacy policies. Students were informed that their writing data would be used solely for educational purposes and gave their consent to participate in the study.

In addition, the scientific research includes qualitative and secondary data analysis to identify how to integrate AI tools into writing lessons and analyze potential benefits and problems that AI brings about in their implementation. To assess the impact of AI tools on academic writing, a corpus of scholarly articles spanning various disciplines was analyzed. Several thematic analyses of interview transcripts were examined to identify recurring patterns, themes, and insights related to students' experiences with AI writing tools. Reflectivity was maintained throughout the data analysis process by documenting researchers' assumption, biases, and interpretations. The trustworthiness of the study was enhanced through prolonged engagement with the data, peer debriefing, and maintaining an audit trail of analytic decision.

Benefits of Implementing AI in Writing Classes

• Personalized Feedback: AI-powered writing assistants can provide personalized feedback on students' writing, identifying areas for improvement and suggesting specific revisions.

AI tools employ natural language processing (NLP) system to identify different errors on users' writing and give personalized feedback on content, grammar, spelling, structure, and other aspects of language. AI writing tools can help students to analyze their mistakes regarding grammatical errors, such as subject-verb agreement, pronoun errors, verb tense errors, sentence completion and correct them with various ways. By offering correct form of the content, AI writing tools can assist students to make their writings more complete and improved. AI tools also offer feedback on writing style, such as word choice, sentence structure, and tone. AI can suggest replacing informal language with more formal language, or vice versa. Students can use AI tools to check their writing's clarity, as these tools can analyze the content of the writing in detail, providing feedback on organization, clarity, and coherence. For example, AI can

suggest adding more detail to a particular point, or reorganize the essay to improve the flow of ideas.

Moreover, AI tools can also provide students with general feedback on their written tasks in addition to the feedback on specific errors or areas for improvement. For instance, they can provide a "writing score" that indicates the overall quality of the writing, or it can provide feedback on the writer's strengths and weaknesses.

• Automated Grading: AI can be used to automate the grading of essays, quizzes, and other writing assignments, freeing up instructors' time for more meaningful tasks.

As it mentioned above, AI-powered tools use (NLP) to analyze students' writing and assess its quality. Once AI writing tools have analyzed grammar, style, and the content of the written text, they can generate a score that reflects the overall quality of the writing. This score can be used to automatically grade essays, quizzes, and other writing assignments. By using automated grading feature of AI writing tools students can save their time and improve their writing skills based on the score.

• Real-Time Support: This real-time support can help students to improve their writing skills in several ways. This includes grammar and spelling checks, writing suggestions, plagiarism detection, and writing prompts. AI chatbots can offer real-time support to students as they write, answering questions and providing guidance. Overall, AI-powered writing tools offer valuable support to students in real-time, helping them to develop their writing skills and become more confident writers.

• Improved Writing Skills: AI can help students improve their writing skills by identifying common errors, suggesting alternative word choices, and providing examples of well-written text.

• Increased Student Engagement: AI-powered writing tools can make writing more interactive and engaging for students, fostering their interest in the subject.

Challenges of Implementing AI in Writing Classes

• Algorithmic bias: AI systems may exhibit biases based on the data they are trained on, which could lead to unfair or inaccurate feedback for students from underrepresented groups. Biases related to gender, race, language proficiency, and cultural background may impact the feedback provided by AI tools, reinforcing existing disparities.

• Over-Reliance on AI: Students may become overly reliant on AI for writing assistance, neglecting to develop their own critical thinking and writing skills. Relying solely on feedback provided by AI writing tools may affect students' independent revision, diminishing their creativity. The overreliance on AI tools may hinder the development of essential writing skills and competencies of users, such as critical analysis and self-expression.

• Cost: Implementing AI technology in writing classes can be expensive, especially for schools with limited resources.

• Privacy Concerns: AI systems collect and analyze student data, raising concerns about privacy and data security.

• Teacher Training: Instructors need to be trained on how to effectively use AI in their writing classes and to mitigate potential challenges. Lack of training opportunities, unfamiliarity with AI technologies, and resistance to change can impede successful implementation and utilization of AI-driven writing instruction methods.

Addressing these challenges requires a multidimensional approach that involves collaboration between educators, technologists, policymakers, and other stakeholders to develop ethical guidelines, mitigate biases, improve AI algorithms, provide comprehensive training, and ensure equitable access to AI-driven writing tools.

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