

# Leveraging AI for Collaborative Writing: A Mixed Method Study on Student Experiences using AI Writing Tools

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## ABSTRACT

The immense development of AI, particularly for writing tools, has made it unavoidable for students to become familiar with these technologies. The study investigates using AI writing tools, specifically Canva Magic Write, Quillbot, and Grammarly, in collaborative writing tasks. Eight third-semester students from the English Department at the Faculty of Letters, University of Persada Bunda Indonesia, were selected using a purposeful sampling technique since they have used AI writing tools, including Canva Magic Write, Quillbot, and Grammarly, in Advanced English Grammar and Essay Writing class in the academic 2024-2025 previously. The study employed mixed methods with an explanatory sequential mixed method design, which involved a two-phase data collection process beginning with quantitative data (Questionnaire) and followed by qualitative data (semi-structured interview). The results showed that three AI writing tools - Grammarly, Quillbot, and Canva Magic Write - significantly impact students' collaborative writing experiences. Grammarly improved writing quality, Quillbot enhanced confidence, and Canva Magic Write proved beneficial for idea generation. However, students faced challenges such as restricted access to premium features, issues with source accuracy, irrelevant suggestions, and technical difficulties. Despite these challenges, students expressed satisfaction with Grammarly and Quillbot, while Canva Magic Write received less favorable feedback due to slower performance and outdated sources. The study highlights the importance of understanding students' perceptions and attitudes toward using AI tools for collaborative writing.

**Keywords:** QuillBot, Canva Magic Write, Grammarly, Collaborative Writing

## INTRODUCTION

The integration of artificial intelligence (AI) tools in education has transformed the way students approach learning tasks, particularly in writing. Tools such as Grammarly, Canva Magic Write, QuillBot, and ChatGPT have gained popularity for their ability to streamline the writing process by offering grammar corrections, improving stylistic elements, and generating ideas. While these tools have demonstrated their value in individual writing tasks, their effectiveness and implications in collaborative writing contexts remain underexplored.

Collaborative writing plays a vital role in education by fostering critical thinking, teamwork, and cooperative problem-solving skills (Vygotsky, 1978). According to socio-constructivist theories, learning is a social process where collaboration among peers enhances knowledge construction. When AI tools are introduced into collaborative

writing tasks, they bring additional layers of complexity. These tools can support students by providing instant feedback and addressing technical challenges, but they also raise concerns about over-reliance, reduced creativity, and difficulties in achieving coherence and cohesion within group outputs (Lee et al., 2024)(Burkhard, 2022). Depending on their knowledge, skill level, and the particular tasks at hand, students may have varying perceptions of these instruments. Investigating these viewpoints is essential to comprehending the best ways to incorporate modern technology into teaching methods. Moreover, not all students are equally familiar with AI tools. Some struggle with integrating them into their work, particularly when addressing tasks like maintaining logical flow, citing sources accurately, and creating cohesive arguments. This variability in familiarity and competence can influence how students perceive and use AI tools in collaborative settings (Lee et al., 2024).

Existing research has largely focused on individual writing and the general use of AI in education, leaving a significant gap in understanding how these tools function in collaborative environments. Collaborative writing requires not only technical improvements but also the coordination of human interactions, such as effective communication, shared responsibility, and emotional engagement. Addressing this gap is critical to ensuring that AI tools are used in ways that enhance not hinder collaborative learning outcomes.

This study aims to bridge this gap by examining how AI tools influence the dynamics of collaborative writing. Specifically, it explores students' perceptions of AI tools, the challenges they face when integrating these tools, and their attitudes toward their use. Guided by socio-constructivist principles and supported by research on writing tools (Lee et al., 2024). The preliminary observation during the learning process, the researcher found the students had various responses and faced some challenges while using AI writing tools during the writing process. To address these issues, this research seeks to answer three key questions:

1. How do students perceive the use of Canva Magic Write, QuillBot, and Grammarly in collaborative writing tasks?
2. What challenges do students face when using these AI tools in group writing?
3. What are students' attitudes toward using AI tools for collaborative writing?

## **LITERATURE REVIEW**

### **AI Writing Tools**

AI writing tools like Canva Magic Write, QuillBot, and Grammarly are becoming indispensable in modern education. Regarding to this research, the aforementioned tools were used to utilize students' collaborative writing with the functions as follows: 1) Canva Magic Write has a feature that generates creative content drafts based on input prompts. This tool is particularly useful for brainstorming and creating content quickly, offering users a foundation to refine their ideas further. According to Canva (2024), this feature empowers users to generate innovative drafts and structure ideas effectively, making it an essential resource for creative writing tasks. 2) QuillBott is known for its paraphrasing and summarizing capabilities. It helps users rephrase sentences and improve clarity while maintaining the original meaning. (Burkhard, 2022) emphasizes that QuillBot supports

students in simplifying complex ideas and refining their writing, enhancing both readability and accessibility. 3) Grammarly is a comprehensive AI tool that provides real-time grammar, punctuation, and stylistic feedback. (Lee, 2024) highlights Grammarly's role in improving writing accuracy and professionalism, describing it as a reliable tool for students and educators alike. However, (Lee et al., 2024) also warns about the potential over-reliance on AI, which could stifle creativity and critical thinking if used excessively without guidance. Therefore, these tools aim to enhance the writing process by addressing technical aspects such as grammar, syntax, and coherence. However, the concerns about over reliance and reduced creativity persist, especially when these tools are employed without a balanced approach.

### **The Importance of Collaborative Writing**

Collaborative writing refers to the process of multiple individuals working together to create a shared written product. It is grounded in Vygotsky's (1978) socio-constructivist theory, which posits that learning is a social process and that collaboration promotes cognitive development. It has several benefits, including 1) improve critical thinking with encouraging meaningful discussions, allowing students to evaluate ideas critically and synthesize diverse perspectives. (Elmassah et al., 2020) assert that the back-and-forth exchange in group settings enhances problem-solving and cognitive flexibility. 2) enhanced teamwork by fostering interpersonal skills, such as negotiation, conflict resolution, and consensus-building. (Afrezah et al., 2024) highlight Collaborative writing elevates students' writing fluency and more effective than individual writing which each member has their own part to compose the paragraph and sharing the idea among them. 3) shared responsibility, which participants learn to divide tasks, share ownership of the final product, and develop accountability. Ferguson (2022) notes that collaborative writing instills a sense of shared responsibility among learners, ensuring active participation from all members. 4) diverse perspectives, which collaboration leverages the unique viewpoints of group members, enriching the depth and quality of written work. According to (Elmassah et al., 2020), diverse perspectives allow students to explore topics from various angles, resulting in more comprehensive outputs. Despite its benefits, collaborative writing poses challenges, particularly in coordinating contributions and ensuring the coherence of group efforts.

### **Integrating AI Writing Tools into Collaborative Writing**

The integration of AI tools into collaborative writing is a relatively new concept. (Wood et al., 1976) propose that tools like Grammarly and QuillBot can act as mediators that scaffold learning and support the writing process in collaborative settings. AI writing tools play a vital role to support collaborative writing, they are: 1) Idea Generation, which tools like Canva Magic Write assist in brainstorming, enabling group members to initiate the writing process with structured ideas. (Utami, 2024) identifies Magic Write as an effective tool for kickstarting creative projects, making it valuable in group activities. 2) Error Correction, which Grammarly provides consistent and objective feedback, ensuring that grammatical and stylistic issues do not hinder group efforts. (Lee et al., 2024) emphasizes the importance of immediate feedback in improving the quality of drafts and fostering iterative learning. 3) Paraphrasing and Simplification, which QuillBot helps

simplify complex ideas, making them more accessible to all group members. (Burkhard, 2022) underscores its utility in maintaining clarity and preserving the original meaning of rephrased content. 4) Real-Time Feedback, which AI tools provide immediate responses, enabling teams to iterate and enhance their work collaboratively. (Dignum, 2021) notes that real-time feedback can reduce the workload for instructors and promote self-directed learning among students.

## RESEARCH METHOD

This study used mixed methods with an explanatory sequential mixed methods design which involves a two-phase data collection (Phase I- Qualitative and Phase II- Quantitative) (Creswell & Creswell, 2023). This method was chosen to get initial quantitative data about the students' perception of using AI writing tools in collaborative writing and for depth-information gathered from a semi-structured interview about their perceptions, challenges, and attitudes toward the AI writing tools (Canva Magic Write, QuillBot, and Grammarly). The participants in this study consisted of eight third-semester students from the English Department at the Faculty of Letters, University of Persada Bunda Indonesia. They were selected using a purposeful sampling technique (Creswell, 2012). These students were chosen because they had already utilized AI writing tools (Canva Magic Write, QuillBot, and Grammarly) in their essay writing class and they enrolled in Advanced English Grammar and Essay Writing class in the academic 2024-2025. For collaborative work, the students were divided into pairs, forming four groups. They utilized AI writing tools during group work to create an essay. The collaborative writing was recorded in Canva Docs since it provides real-time collaboration and feedback features help the students monitor their work and make synchronous edit (Pedroso et al., 2023).

### Phase I: Quantitative

This study administered a questionnaire consisting of 27 closed-ended questions supplemented by 8 open-ended questions. The questions were adapted from (Rahmani, 2023), utilizing the Technology Acceptance Model, which focuses on perceived ease of use, perceived usefulness, and attitudes toward use. Adjustments were made to tailor the questions to AI writing tools, specifically Canva Magic Write, QuillBot, and Grammarly. The questionnaire was distributed via Google Forms, and the responses were analyzed by using SPSS version 27. The Cronbach's alpha coefficient indicated a high reliability, scoring 0.936 as shown in Table 1.

Table 1. The result of reliability test

Cronbach's Alpha	N of items
.936	27

### Phase II: Qualitative

Some students participated in follow-up interviews to gather deeper insights into their challenges and attitudes regarding the use of AI writing tools, specifically Canva Magic Write, QuillBot, and Grammarly, during collaborative work. These interviews,

conducted via phone, lasted between 20 to 35 minutes and were recorded. Each interview included a series of predetermined, open-ended questions derived from the initial questionnaire, allowing for a more in-depth exploration of students' individual experiences with these tools in their writing processes. Three students volunteered for the interviews, and the results were transcribed and analyzed based on three research objectives: experiences, challenges, and attitudes.

## RESULT AND DISCUSSION

The results of this study are categorized into three sub-sections to address three key points: the students' perception of utilizing AI writing tools (including Canva Magic Write, QuillBot, and Grammarly), the challenges encountered while integrating these tools into their collaborative writing processes, and their attitudes towards the use of the aforementioned tools.

### a. The students perception of using AI writing tools (Canva Magic Write, QuillBot, and Grammarly) in collaborative writing tasks

This study used (Davis, 1989)'s Technology Acceptance Model (TAM) to analyze the students' perceptions of using AI writing tools in terms of Perceived ease of use and Perceived usefulness. Perceived ease of use here measures the students' belief that using AI writing tools is easier without much effort while Perceived usefulness measures the students' belief that using these tools would enhance their collaborative writing work. The result of the students' perceptions can be seen below.

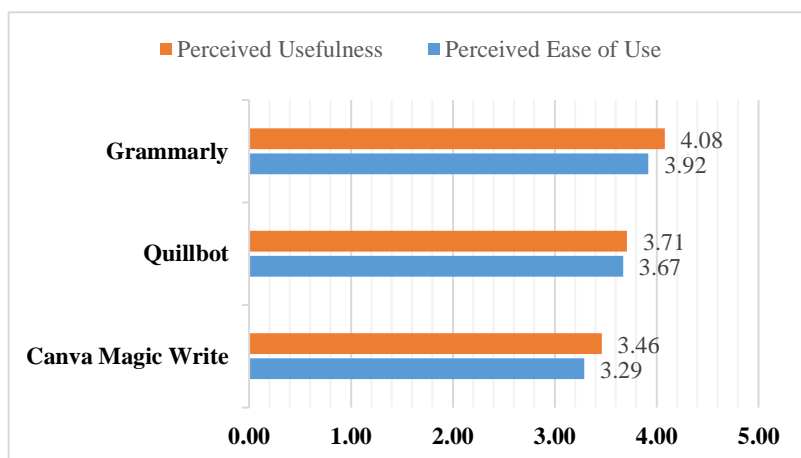


Figure 1. The Mean of the students perception of using AI Writing tools

Figure 1 indicates that Grammarly scored highest in Perceived Usefulness (4.08) and Perceived Ease of Use (3.92), followed by QuillBot with Perceived Usefulness (3.71) and Perceived Ease of Use (3.67), while Canva Magic Write got the lowest score with Perceived Usefulness (3.46) and Perceived Ease of Use (3.29). Most students found Grammarly easy to use, especially for checking grammar and spelling mistakes. Then, the suggestions were easy to understand and implement. Grammarly also helps improve student writing by clarifying ideas and saving time on editing essays. QuillBot is the second most popular AI writing tool among students for its user-friendly features that facilitate easy paraphrasing and rewording of essays. It is useful for rephrasing their ideas more effectively, improving the clarity of their writing, and generating alternative ways

to express their ideas. Last, while Canva Magic Write is widely used for generating ideas powered by OpenAi, the students faced some technical issues related to slow response, finding up-to-date sources, and having limited words generated. It caused only a few students to find Canva Magic Write easy to use. Despite its limitations, Canva Magic Write helped the students improve the content and structure of their writing, provide some valuable suggestions, and contribute efficiently to the completion of the student's writing task.

The students' responses to open-ended questions and the results of semi-structured interviews about three AI writing tools. The students found QuillBot as the most useful AI writing tool in the collaborative writing task as depicted in the statement below.

**Student A:** *"In my opinion, the most useful tool is QuillBot because it helps check grammar without premium limits and also assists in creating citations."*

**Student B:** *"The most useful AI tool is QuillBot because of its comprehensive features such as paraphraser, summarizer, citation generator, grammar checker, and AI detector, so if we want to check, everything is included in this one package, QuillBot."*

QuillBot offers many features accessible for free, while Grammarly restricts clarity checks and revision suggestions to premium users as stated in the students' response below.

**Student C:** *"Grammarly can help provide suggestions for improving grammar, but for clarity, it's limited to the premium version, making it less effective"*

In addition, the generative AI proposed by Grammarly was quite disappointing for the students in terms of the limited access from the device used and the mismatched instructions.

**Student D:** *"The results from the AI instructions did not come out as I requested and it couldn't process the generated ideas."*

**Student B:** *"The use of AI features and writing is limited on a phone or tablet, and it requires a subscription first."*

To generate ideas, some students mostly used Canva Magic Write because the main function of this tool as an AI text generator is to brainstorm ideas with prompts. It can be seen in the following interview transcript.

**Student C:** *"In my opinion, the most useful tool is Canva Magic Write. It helps me develop the ideas I have, and then I can select a few ideas that suit me."*

Therefore, Canva Magic Write, QuillBot, and Grammarly are user-friendly tools for students to enhance their writing performance when working in pairs. Each tool proposes different functions in students' writing, such as Canva Magic Write excels at idea generation for generating ideas and helping to maintain a good structure for academic writing (Utami & Karnedi, 2024), while QuillBot specializes in paraphrasing, summarizing, citation generator, and grammar check (Nurmayanti & Suryadi, 2023) in addition (Latifah et al., 2024) found it helps expanding vocabulary. Lastly, Grammarly is essential for checking grammar and providing feedback correction to improve writing quality (Faisal & Carabella, 2023) for the students in collaborative project. Overall, the

students had a positive perception regarding using these three AI writing tools in their writing and found them helpful for collaborative work.

**b. The challenges students face when integrating AI writing tools (Canva Magic Write, QuillBot, and Grammarly) into their collaborative writing process**

To find out the challenges of Canva Magic Write, QuillBot, and Grammarly faced by the students when integrating these three AI writing tools for the collaborative writing process, an open-ended questionnaire and a semi-structured interview were administered. The result indicated the most challenging AI writing tool for them Canva Magic Write with the descriptions as follows:

**Student E:** *"Canva Magic Write is challenging because the language used can be too complex, and there is a premium limit for writing. Also, if you want instructions, you need to ask multiple times for it to be good, and if you hit the free limit, you have to subscribe to premium."*

**Student F:** *"In my opinion, Canva Magic Write is because we can't fully trust the content it provides; instead, we must recheck what Canva Magic Write offers."*

**Student G:** *"When accessing Canva Magic Write my phone becomes slow and RAM works extra. Maybe a stable internet is also needed."*

Hence, the students' feedback highlighted several challenges of using Canva Magic Write, including its complex language and premium limitations (Utami, 2024), the need to repeatedly request clear instructions, concerns about the accuracy of the content requiring rechecking, and technical issues such as slow performance and high RAM usage, along with the necessity for a stable internet connection (Hidayati, 2023).

A few problems occurred when the students used QuillBot and Grammarly such as minor technical issues for a new user, inappropriate feedback, and limited access to some features. These issues are depicted in the students' statement below.

**Student B:** *"The first time I accessed Grammarly, I was confused about what to choose from the existing features, then when I asked for suggestions from Generative AI, it was also limited to what I wanted."*

**Student D:** *"Using Grammarly may highlight grammar, writing style, and spelling that we write, but not everything is wrong... so we need to be careful when accepting revisions from Grammarly."*

**Student E:** *"QuillBot is good at giving helpful paraphrasing suggestions, but some of the synonyms it offers may not fit the context that I wanted. Then, there is limited access to the formal or academic mode only for premium subscriptions."*

The students shared various challenges with Grammarly and QuillBot. Adapting to a new AI tool is a common problem for a new user before being familiar with the features. However, Generative AI suggestions from Grammarly very unfortunately provided limited prompts that differ from other generative AI such as ChatGPT, Gemini, and Canva Magic Write. Some unnecessary revisions were also provided such as proper nouns and other words (Astuti et al., 2023). In addition, some synonyms in QuillBot are contextually inappropriate, and formal or academic modes are locked behind a premium subscription (Amanda et al., 2023). In conclusion, while both tools offer helpful features,

users need to be cautious of limitations and ensure they use them appropriately for accurate results.

**c. The students' attitudes towards using AI writing tools (Canva Magic Write, QuillBot, and Grammarly) for collaborative writing**

The students found using Canva Magic Write, QuillBot, and Grammarly are interesting and enjoyable in their collaborative writing. However, Canva Magic Write made the writing task less engaging than other tools. The positive attitudes of the students are using QuillBot made them feel confident about the quality of their writing and the tool is very valuable. Grammarly additionally made the writing process more efficient and improved the writing quality. These results can be seen in the figure below.

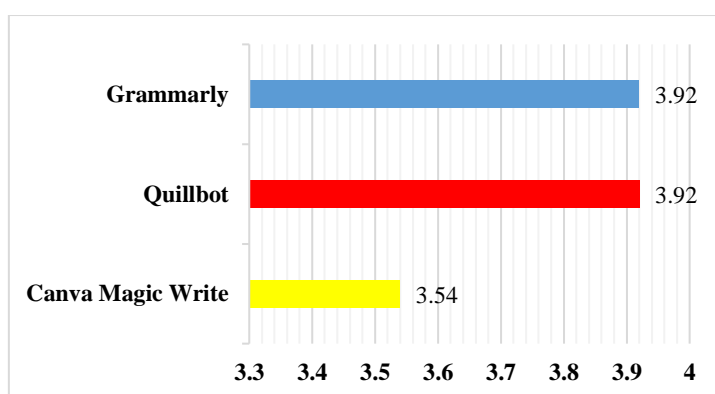


Figure 2. The Mean of the students attitude toward use of AI Writing tools

Figure 2 proved that the students had a positive attitude toward Grammarly and QuillBot which had a high mean of 3.92 followed by Canva Magic with a mean score of 3.54. This significant difference in the score showed that Canva Magic Write is less favorable for students to use in collaborative writing. It is stated by a student in the following statement.

**Student D:** *"I feel frustrated when using Canva Magic AI because it took too long to respond and I need more effort to find the source for the essay because some sources can not be found on Google"*

On the contrary, Students feel confident and motivated when using QuillBot and Grammarly. They believe these tools improve their writing quality and make the process more efficient, eliminating the need to search for additional suggestions on Google, unlike Canva Magic Write. It is supported by the students statements below.

**Student G:** *"Using QuillBot makes the essay more interesting, so we use them if we feel there is still something lacking in the essay. We can be more confident and save our time"*

**Student H:** *"Grammarly makes my work more efficient by providing advice and fixing the mistakes or inconsistencies in writing essays. Using AI is better "*



Thus, the use of AI tools such as QuillBot, Grammarly, and Canva Magic Write in collaborative writing has yielded varying levels of satisfaction among students. While QuillBot and Grammarly were highly favored for their ability to enhance writing quality, boost confidence, and improve efficiency (Burkhard, 2022), Canva Magic Write received more mixed feedback. Students expressed frustration with the delays and difficulties in sourcing information since the references limited until 2021 (Utami, 2024), which made the tool less engaging compared to the other two. Overall, QuillBot and Grammarly proved to be valuable assets in the writing process, fostering motivation and enabling students to work more effectively, while Canva Magic Write showed room for improvement in its functionality and user experience.

## CONCLUSION

In conclusion, this study highlighted that AI writing tools - Grammarly, QuillBot, and Canva Magic Write - have had a significant impact on students' collaborative writing experiences, each offering varying levels of usability, usefulness, and engagement. Grammarly stood out as the most user-friendly and effective tool for enhancing writing quality and efficiency. QuillBot was particularly appreciated for its versatile features, including paraphrasing and citation generation, which helped boost students' confidence and motivation. While Canva Magic Write proved beneficial for idea generation, it encountered challenges such as response delays, complex language, and limited access to updated sources, rendering it less favorable among students. Nonetheless, students expressed an overall positive attitude toward the integration of these tools into their collaborative writing process, viewing them as valuable resources for improving writing performance and fostering teamwork. To maximize their effectiveness in educational contexts, it is recommended for the developer that improvements be made in functionality and accessibility, especially for Canva Magic Write.

When utilizing AI writing tools, it is essential to consider certain factors to prevent misuse or over-reliance, which can undermine the development of critical thinking and analytical skills and diminish students' unique writing styles (Ariati, 2024; Burkhard, 2022). In addition, excessive dependence on AI tools may discourage critical thinking and originality (Bird et al., 2020). For further research, in addition to collaborating with peers, students can also work alongside AI tools to encourage dynamic and reflective engagement. It's vital to foster critical thinking and analytical skills while enhancing writing performance. To mitigate the risk of over-reliance on AI tools, educators should provide constructive feedback that complements the AI's assistance. Students should not become overly dependent on AI resources.

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