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# **Optimizing Students' Writing by Using Chat GPT**

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# **Article Info Abstract**

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ChatGPT has become increasingly popular in recent times due to its utilization of AI technology, surpassing Google in terms of effectiveness. It is also widely used by students as a valuable learning tool. When learning English, ChatGPT can aid in translating passages and evaluating students' writing. This study aimed to assess the impact of ChatGPT on students' writing skills. The results demonstrated that students were able to identify their writing mistakes through the use of ChatGPT. Not only did ChatGPT provide corrections, but it also offered comments on their writing, facilitating easy revision. Furthermore, students exhibited improved writing when compared to using Google Translate. While Google Translate merely translates the text, ChatGPT provides suggestions for enhancing the writing, resulting in more cohesive compositions. However, students argued that Google Translate was more convenient because it allowed for automatic translation by simply taking a picture of their writing. In contrast, ChatGPT requires manual typing of the text. It is worth noting that although Google Translate offers convenience, ChatGPT provides valuable guidance for better writing. In conclusion, ChatGPT can serve as an alternative for teaching writing. Teachers can encourage students to utilize ChatGPT to evaluate their writing, ensuring that they do not overly rely on it and make progress in learning English. By striking a balance between independent writing skills and the assistance of ChatGPT, students can enhance their overall language proficiency.

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### INTRODUCTION

The advancement of AI technology has altered not only the technological landscape but also how people live today. According to Tai (2020), the introduction of AI technology has had a significant impact on human interactions and addition revolutionising the lives in to technological landscape. Education, too, has been transformative influenced by this technology, with ChatGPT emerging as one of observed in the same study. the most popular AI tools in the field. As highlighted by Su and Yang (2023), ChatGPT offers effective learning capabilities and valuable

feedback to users. Lo (2023) further supports this notion by emphasizing that ChatGPT serves as a valuable assistant for instructors and tutors in educational settings. The research conducted by Farrokhnia, Banihashem, Noroozi, and Wals (2023) reveals that ChatGPT excels in providing prompt responses, making it a valuable resource for students. Additionally, it aids students in accessing information in a simplified language, as

The popularity of ChatGPT as a learning asisstant could not be separated from the as Gen Z, which are very immersed to the teaching and learning process, especially in development of technology. One of the most finding information. crucial action in teaching Gen Z is to invest in tehnological resources for the students to extensively utilize technology to enhance and expedite the academic journey (Hernandez-de-Menendez et al, 2020). According to Dolot (2018), one of Gen Z traits is the adaptation to the new technology. That's why Gen Z is known as Digital Natives. They uses many kinds of mobile devices and are accustom to use the internet in daily lives. Mosca et al (2018) found that the way students receive and understand information has been transformed by the swift advancement and widespread usage of mobile communication technology.

acknowledge its limitations. potential for fake information and plagiarism. As provides direct feedback to the students. ChatGPT can bypass plagiarism checkers, developers must address these challenges to ensure responsible use of the technology.

process is a topic of debate among educators. writing, to the presence of this technology. Particularly in motivation and reading habits of learners. language learning, ChatGPT is often deemed Additionally, external factors such as the more accurate compared to Google products such classroom environment, available teaching aids as Google Search and Google Translate. Zhai for writing, and the amount of time available also (2022) asserts that ChatGPT has the potential to play a role. Graham (2019) found that in teaching bring about significant changes in learning goals, writing, many teachers do not give clear activities, as well as assessment and evaluation instructions the students' need. practices within the education system. Moreover, Cotton, Cotton, and Shipway (2023) argues that ChatGPT is vulneravle to cheating. Huang in Abramson (2023) stated that New York Times found many of the colleges started to redesigning their curricula to prevent cheating by using ChatGPT.

On the other hand, Ellis and Slade (2023) argue that the focus should not solely be on the a form of mental activity and personal expression. drawbacks of ChatGPT, but also on its benefits. They highlight the capacity of ChatGPT to assist in creating educational resources and providing recommendations educators, to thereby facilitating responsible student engagement with the system. ChatGPT may have some issues in

characterictic of the students, which is categorized cheating area, but it also has some benefits for

Indeed, many students rely on ChatGPT to assist them with their English assignments, including writing tasks. Teaching writing has long been considered a challenge in English as a Foreign Language (EFL) instruction. As noted by Brown (2000), writing plays a crucial role in language learning. He further emphasized that an instructional approach that focuses on learnercentered instruction, student-student negotiation, and strategies-based instruction creates an appropriate learning environment acknowledges and respects the diverse pathways students take to achieve success. Brown (2004) highlighted that English competence also Although ChatGPT offers significant encompasses various aspects, especially in advantages for education, it is important to relation to writing. This includes the learners' Farrokhnia, grammatical proficiency, vocabulary mastery, and Banihashem, Noroozi, and Wals (2023) point out their ability to effectively structure well-written that while ChatGPT facilitates quick access to English paragraphs. To overcome the problems in it may undermine students' teaching writing, El, Sidi, and Baghdadi (2022) comprehension and critical thinking skills, which suggest that teachers may give give model are crucial aspects of the learning process. analysis, writing exercises, and structured teacher-Additionally, Lo (2023) highlights concerns student feedback sessions. ChatGPT can be a regarding the use of ChatGPT, including the good alternative for the teachers beause it

Severa1 studies have background of this research. In a research done by Hidayati (2018), it is found that there are various The use of ChatGPT in the learning factors that contribute to the difficulties in including linguistic competence, However, it is evident that teachers need to adapt interference from the native language, the

> Relating to the use of ChatGPT in writing, Chinonso, Theresa, and Aduke (2023) found that ChatGPT provides swift and immediate answers to search inquiries, along with the ability to generate text that mimics conversational replies. However, Baron (2023) in his article, found that using ChatCPT for writing may causes losing spelling ability and reduce the power of writing as

> Most of the studies related to teaching writing and ChatGPT focused on the problem in teaching writing and how to solve the problem in teaching writing. The results of those studies show that there were many factors influence the process of teaching writing and many teachers

to write better. Moreover, relating to the use of ChatGPT in teaching writing. There were two ChatGPT, most of the studies focused on the kinds of writing; the first one was students' weakness and the strength of ChatGPT in writing by using English learning assisstant tools education. So far, the researcher did not find any they had chosen, and the second one was using studies related related to the use of ChatGPT in ChatGPT. The last data collection was individul tecahing writing.

This study is important to maximize the use of technology, especially AI, in teaching writing. By interviewing the students and analyzing students' writing by using ChatGPT and other language tools, this study was aimed to know the students' opinion on ChatGPT, students' writing by using ChatGPT and other language asisstant tools, and students' opinion about using ChatGPT in writing.

### **METHOD**

This study is a case study, thus considered as qualitative study. Kothari (2004) defined case study as a widely favored qualitative analysis method entails meticulous and comprehensive observation of a social entity, which can range from an individual, family, institution, cultural group, to even the entire community. Qualitative study was chosen because this study explains the quality of ChatGPT in english teaching, especially in writing. It also explains students' perspectives on ChatGPT compared to other english learning assisstant tools. Cohen et al (2007) stated that qualitative research related to the consideration of the alternative perspective of social reality, which emphasizes the significance of individuals' subjective experiences in shaping the social world, the pursuit of comprehension revolves around distinct matters and adopts methodologies. Cresswell (2012) argued that there is a necessity for a qualitative research study to investigate this phenomenon through the lens of distance education students' perspectives. For those reasons, this study was presented descriptively.

There were 40 students who took a part in this research. In collecting the data, questionnaire, interviews and study reports were used. Kothari (2004) explained that depending on the prevailing circumstances, the researcher has the flexibility to employ various research methods within the case study approach. This includes options like conducting in-depth interviews, administering questionnaires, analyzing documents, studying individual reports, and examining letters, among other possibilities. Questionnaire was used to know the students' perpective towards ChatGPT ChatGPT for learning. 6 students admitted that and other English learning assisstant tools. After they had never used ChatGPT for learning. knowing students' perspective towards ChatGPT, Meanwhile, 4 students said that they use

need to provide a model in order for the students I collected their writing to analyze the use of intervies. In this step, I did not interviews all the students, but only 20 students randomly.

# **RESULTS AND DISCUSSIONS Initial Research**

Based on preliminary research and information gathered from a survey given to the students, it was discovered that very few of them were aware of ChatGPT as a teaching tool. Ten students—a small percentage of the overall number of respondents-knew about ChatGPT, but the bulk of respondents (the other students) were unaware of it. This data suggests that despite ChatGPT's popularity in recent years, it has not reached a significant portion of the student population surveyed. The lack of awareness could be attributed to various factors. such as limited exposure to technology, lack of promotional efforts, or inadequate information dissemination about ChatGPT as a useful English learning assistant tool. Further research and outreach efforts may be required to increase students' awareness of ChatGPT's benefits for English learning and other educational purposes.



Figure 1. Students' preferences on ChatGPT

The diagram showed represents the awareness level of people regarding "ChatGPT." 25% of the individuals surveyed are aware of "ChatGPT." These people have some knowledge or information about it. On the other side, 75% of those polled were unaware of "ChatGPT." These people are unfamiliar with it or have never heard of it.. It showed that the development of the technology haven't reach many students.

The second question was about the use of

ChatGPT ocassionally. The rest of the students survey participants reported using other English only know ChatGPT after being told about it language learning resources, notably dictionaries when the research began. The diagram can be and Google Translate, to support their study of seen below.



Figure 2. Students' preferences on English learning tools

that only a small percentage (10%) of students explanations in a way that's closer to human actively used ChatGPT for learning purposes, interaction. Introducing students to such AI while a slightly larger percentage (15%) used it language models can expand their language randomly without fully benefiting from its learning capabilities beyond simple word potential. This suggests that a significant portion translations. To promote the use of ChatGPT or of students did not fully take advantage of the AI similar AI language models, program's capabilities, including ChatGPT, which institutions or providers could be helpful for various purposes. The workshops, training sessions, or informational passage also mentions that students in rural areas campaigns to familiarize students with these tools' or small districts showed little interest in advantages and how they can effectively integrate exploring the advancements of technology. This them into their English learning journey. lack of intention to explore technology was reflected in their responses to the first and second questions, presumably related to their usage of ChatGPT.

It's crucial to take into account the causes of this lack of interest. Given that students in rural locations do not have the same resources and opportunities as those in urban or developed ChatGPT in Teaching Writing areas, access to technology and internet connectivity may be important concerns. Students' views towards using technology may also be influenced by cultural or educational barriers. Initiatives could be conducted to close the digital gap and improve access to technology implement awareness programs to demonstrate the potential benefits of AI programs like ChatGPT and encourage students to use them for their educational and personal growth.

The last question in this questionnaire was the use of English learning tools to help the students in class. All of the students used google translate and dictionary to help them learning English. It is important to note that all of the

the English language, despite the limited knowledge of ChatGPT as a learning tool. It might be helpful to use dictionaries and Google Translate since they instantly translate and define words and phrases, which helps pupils learn new vocabulary. But it's important to understand that while these tools can be useful for translating a single word, they might not always provide precise translations or explanations based on the context, especially for more intricate sentence structures and idiomatic expressions.

Considering that the students already utilize language learning tools, there might be an opportunity to introduce ChatGPT as an additional resource to further enhance their language learning experience. ChatGPT, being an AI-powered language model, can provide more contextually relevant responses, simulate From the provided information, it seems conversational English practice, and educational could organize Additionally, incorporating AI-based language learning tools into the curriculum or providing access to them through educational platforms can further encourage their usage and improve students' language skills in the long run.

The study you described seems to focus on observing how students approach writing a discussion text on a topic of their interest and how they utilize learning tools during the process. From the information provided, it appears that in rural and underserved areas in order to address the students were given the freedom to choose this problem. Teachers might also need to their own topic for the discussion text and were allowed to use any learning tools they desired.

Here's a breakdown of the study process:

1. Topic Selection: The students were asked to choose a topic that interested them. This step aimed to engage the students and encourage them to write about something they were passionate about.

- students selected their topics, proceeded to write the discussion text in Bahasa Indonesia, which is their native language. Writing in their native language allowed them to express their thoughts and ideas more comfortably and effectively.
- Utilization of Learning Tools: The study allowed the students to use any learning tools they wanted during the writing process. These learning tools could include various resources, reference materials, online articles, textbooks, etc. It appears that Google Translate was one of the learning tools the students opted to use.
- Translation into English: After completing the text in Bahasa Indonesia, the students then translated their work into English using Google Translate. The reason for this step might be to practice their English writing skills or to create a bilingual version of their discussion text.

The purpose of this study might have been to explore how students approach the writing The sentence you provided is well-written and translating text from one language to another.

However, it's essential to note that relying 1. solely on machine translation might have limitations, as automatic translations sometimes be inaccurate or fail to capture the nuances of the original text. Human editing or review would be crucial to ensure the accuracy and coherence of the final translated texts.

After the translation process, the students were asked to evaluate their English-text using ChatGPT. To do this, they were required to type Here's the revised version with the suggested the word "feedback" in ChatGPT, presumably changes: prompting the model to provide feedback on their work. The purpose of this step was likely to allow the students to assess their English writing skills and identify any mistakes or areas for improvement. By interacting with ChatGPT, the students might have received feedback on grammar, syntax, vocabulary, and overall coherence in their English text.

It's worth mentioning that while ChatGPT can provide valuable feedback, it is not infallible, and its suggestions may not always be perfect.

Writing in Bahasa Indonesia: Once the The students should have been encouraged to critically assess the feedback provided by ChatGPT and compare it with their own understanding and knowledge of the English language. This way, they can learn from their mistakes and make necessary corrections to improve their English writing skills further. Overall, the study design appears to foster a selfdirected learning approach, allowing the students to actively engage in the writing process, translation, and self-evaluation, leading to an opportunity for continuous improvement in their English language proficiency. The example can be seen below.

### **Student A wrote:**

"According to law number 33 of 2014, all food products, beverages, food additives for slaughter products, and slaughter services must be halal certified; otherwise, there will be sanctions"

Then, ChatGPT would give the feedback as follows:

#### Feedback:

process when given the freedom to choose their effectively conveys the message about the legal own topics and use learning tools of their choice. requirement for halal certification. It is clear, Additionally, it could investigate the efficacy of concise, and includes all the necessary using machine translation (Google Translate) for information. However, to further improve the sentence, consider the following suggestions:

- Punctuation: Consider adding a comma after "2014" to separate the introductory clause from the main clause. This helps improve readability.
- Capitalization: In the phrase additives for slaughter products," it is advisable to capitalize "slaughter products" to maintain consistency in the list of items.

"According to Law Number 33 of 2014, all food products, beverages, food additives for slaughter products, and slaughter services must be halal certified; otherwise, there will be sanctions."

This revised version maintains the clarity and effectiveness of the original sentence while addressing minor punctuation and capitalization improvements. Overall, it remains a wellstructured and informative sentence.

#### Student B wrote:

Not everyone can bear responsibility of having children. Because having children is a big responsibility that must be fulfilled.

#### ChatGPT feedback:

#### Feedback:

The statement you provided emphasizes the significant responsibility that comes with having children and acknowledges that not everyone may associated with parenthood.

To further improve the statement, consider the following suggestions:

- Consider Inclusive Language: While the statement is well-written, using more inclusive language like "not everyone may be able to bear" instead of "can" can be more sensitive to those who might face fertility challenges or other personal circumstances preventing them from having children.
- Provide Context: Depending on the context or purpose of the statement, providing more context or elaborating on the challenges responsibilities of and parenthood could add depth to the message.

Here's the revised version, considering the Post Interview suggestions:

ability to care for and support a child."

The revised version maintains the essence of the original statement while incorporating inclusive language and providing a bit more context. Overall, the statement highlights the importance of responsible parenting while respecting individual differences and circumstances.

The use of ChatGPT to provide feedback to the students allowed them to engage in self-

a more personalized and interactive learning experience for the students. By interacting with ChatGPT, the students had the opportunity to compare their work with the model's suggestions, identify areas for improvement, and gain insights into potential mistakes or areas where they could enhance their writing skills. This self-reflective approach encourages students to take ownership of their learning and actively seek ways to enhance their writing abilities.

Moreover, the feedback provided by ChatGPT was likely based on language models be able to bear this responsibility. It highlights the and natural language processing capabilities, importance of fulfilling the responsibilities enabling it to evaluate aspects such as grammar, sentence structure, coherence, and vocabulary usage. This feedback mechanism likely helped the students understand specific areas they excelled in and areas where they needed more practice.

> It's important to note that while ChatGPT can be a valuable tool for providing feedback, it may not replace human feedback entirely. Human feedback from teachers or instructors can offer a deeper level of analysis, explanation, and understanding of writing strengths weaknesses. Therefore, a combination of AIgenerated feedback and human guidance can provide a more comprehensive learning experience for the students. Overall, the use of ChatGPT to facilitate self-reflection and provide feedback appears to be a valuable approach in fostering students' learning and growth in their writing abilities.

After collecting the main data which was in "Not everyone may be able to bear the the form of students' writing report, I did post responsibility of having children, as it is a interview. This interview was aimed to know significant responsibility that must be fulfilled. students' perspective after using ChatGPT in Parenting requires commitment and consideration writing. The interview was done to 10 students. of various factors that impact an individual's They were chosen randomly for reliability and validity purposes. There were 3 questions in the interview; those were: 1) What do you think about ChatGPT in learning English?; 2) What kind of learning assisstant tool do you prefer? Google translate or ChatGPT?; and 3) Why do you think so?

For the first question, all of the students interviewed answered that ChatGPT helped them in learning English, since they could get the feedback. As a result, they knew their mistakes and did self-reflection. In the next two questions, reflection and receive the feedback they needed to 80% of the students because they felt like google improve their work. This process likely facilitated translate was more effective and easier to use.

They only needed to capture their writing and ACKNOWLEDGEMENT (OPTIONAL) google translate automatically provided the translation. Meanwhile, they had to type the external financial support or funding. The whole sentences or text in ChatGPT to get the researcher involved in this project voluntarily translation.

### **CONCLUSION**

The study you described involves using ChatGPT as a learning assistant tool for students in learning English writing. After collecting the main data in the form of students' writing reports, you conducted post-interviews with 10 randomly selected students to gain insights into their perspective on using ChatGPT in their English learning process. The interviews consisted of three questions to assess their thoughts and preferences. The study highlights that all students perceived ChatGPT positively, noting that it helped them in 1earning English by providing feedback, identifying mistakes, and facilitating reflection. This positive feedback reflects the potential value of using AI language models as learning aids.

The result of the study shows that 80% of the students preferred Google Translate over ChatGPT. They cited the ease and efficiency of using Google Translate, primarily due to the simplicity of capturing text for translation compared to typing entire sentences or text into ChatGPT. The study could benefit from addressing potential limitations, such as the relatively small sample size and potential biases that may arise from using a single language model (ChatGPT) for translation comparison. Additionally, further investigation into specific language learning outcomes would provide a more comprehensive understanding of the effectiveness of ChatGPT in comparison to other tools.

In conclusion, the study demonstrates positive feedback from students regarding the use of ChatGPT in English learning, particularly for its feedback and self-reflection benefits. However, the students' preference for Google Translate as a learning assistant tool due to its ease of use highlights the importance of considering userfriendliness and efficiency when implementing AI tools in educational settings. Addressing the study's limitations and conducting further research would strengthen the findings and contribute to the understanding of AI-based language learning tools' effectiveness.

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