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# English Education Students' Perception of the Use of ChatGPT in Writing Articles

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**Abstract:** ChatGPT is an artificial intelligence-based machine technology developed by the OpenAI company. ChatGPT is trained to be able to simulate human conversations such as answering questions and interacting on various topics. This research uses a qualitative approach with a descriptive research type. Data collection techniques can be obtained through questionnaires. The purpose of this study is to find out the perceptions of students towards the use of ChatGPT in writing articles. The target of the research is 7th semester students who have published articles. The results showed that the percentage of positive students towards the use of ChatGPT and there are also some students who are not in agreement with the use of ChatGPT in writing articles.

**Keywords:** AI, ChatGPT, Perception, Student, Article

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## Introduction

Technology at this time plays a very important role for everyday life, technological advances that are increasingly developing encourage the development of artificial intelligence systems or called the term AI (artificial intelligent). AI or Artificial Intelligence is a field of computer science related to the creation of computer systems that can perform tasks that usually require human intelligence. A chatbot is a system that adopts human-like knowledge (Muhammad Nur Rachman Nidhi Suryono et al., 2023). AI is able to learn from data and perform tasks that usually require human intelligence such as learning, reasoning, making decisions, and self-correcting (Devianto & Dwiasnati, 2020). One of the most popular AIs is ChatGPT (Chandra, 2023; Pradana, 2023; Zashikhina, 2023; Zhu, 2023). AI is the study and development of computer systems and computer systems and algorithms that can perform tasks that would normally require human intelligence, such as decision making, solving require human intelligence, such as decision making, problem solving problem solving, and learning mechanisms (Amala et al., 2023).

ChatGPT is an AI application that performs interactions in text-based conversations (Eysenbach, 2023; Iriyani et al., 2023; Rudolph, 2023; Zhu, 2023). ChatGPT's ability to generate human language and accomplish complex tasks is a significant innovation in the field of natural language processing and artificial intelligence (Bahşi, 2024; Faiz & Kurniawaty, 2023; Huh, 2023). The existence of ChatGPT technology provides an opportunity to use AI chatbots for education in Indonesia, especially to develop the skills of learners needed in the 21st century (Ashari et al., 2022).

ChatGPT allows users to identify grammar and structure errors or mistakes, provide recommendations for creating sentences that fit the topic of the writing, paraphrase paragraphs, and more (Lee, 2023; Megahed, 2023; Sallam, 2023). The writing provided by ChatGPT looks well structured, the relationship between words or sentences is coherent and the accuracy is quite good and is able to remember previous conversations (Abdulai, 2023; Grassini, 2023; Halaweh, 2023; Strzelecki, 2023). Therefore ChatGPT is able to produce well-structured writing (Benichou, 2023; Mondal, 2023; Ros-Arlanzón, 2023). The GPT (Generative Pre-trained Transformer) architecture, on which ChatGPT is built by OpenAI, allows it to learn from large amounts of data and produce highly precise answers to natural language questions (Sugiarto & Suhono, 2023).

Student papers are a form of academic evaluation that requires in-depth understanding of a topic and scientific communication skills (Bitzenbauer, 2023; Cooper, 2023; Keiper, 2023). Therefore, utilizing ChatGPT as a tool in the process of preparing student papers offers the potential to increase productivity, creativity, and accuracy. ChatGPT, with its ability to generate text automatically and responsively, can be a virtual partner for students in exploring ideas, formulating arguments, and composing paragraphs more effectively (Setiawan & Luthfiyani, 2023). Its use in education provides great potential benefits, such as increasing learner engagement, enhancing the learning experience, and improving teaching (Mairisiska & Qadariah, 2023).

Previous Research that has examined ChatGPT. First, by Edi Supriyadi with the title "Exploration of the Use of ChatGPT in Writing Mathematics Education Articles" this research was conducted in 2022 using one sample as the article studied. The result of this study is that the use of Chat GPT in making mathematics education articles still needs to be studied in terms of plagiarism, because the use of chat GPT directly without paraphrasing will give results 2730 The Ethical Importance of Chat Gpt Utilization in the Preparation of Student Papers (Kamal, 2023). Second, by Adi Setiawan & Ulfah K. L. with the title "Use of ChatGPT for Education in the Education 4.0 Era: Proposed Innovations to Improve Writing Skills". Experiments in research using ChatGPT to produce a writing of 693 words that can still be developed again in the next assignment (Kamal, 2023). Third, research conducted by T. Mairisiska & N. Qadariah in the article "Perceptions of FTIK IAIN Kerinci Students on the Use of ChatGPT to Support Learning in the Digital Age" research conducted on FTIK IAIN Kerinci students in 2023. The results of the study stated that students gave a positive perception on the ease of using ChatGPT, increasing knowledge, satisfaction with the speed and accuracy of answers provided by ChatGPT, increasing time efficiency and effectiveness and increasing learning activeness with the help of ChatGPT. However, with a note that the use of ChatGPT has several adverse effects such as decreasing students' critical thinking skills by Mairisiska & Qadariah, (Kamal, 2023).

From the three previous studies, there are similarities that need to be reviewed, namely students' perceptions of the use of ChatGPT which can facilitate them in making papers, because according to researchers, students' perceptions of ChatGPT are considered important to do, considering that ChatGPT has the potential to meet the needs of student knowledge sources. Whether or not students' perceptions of ChatGPT are positive to help improve writing skills will encourage them to utilize ChatGPT according to these perceptions. The students the researchers studied were 7th semester students of English education at Universitas Muhammadiyah Bengkulu who had already published articles.

## Methodology

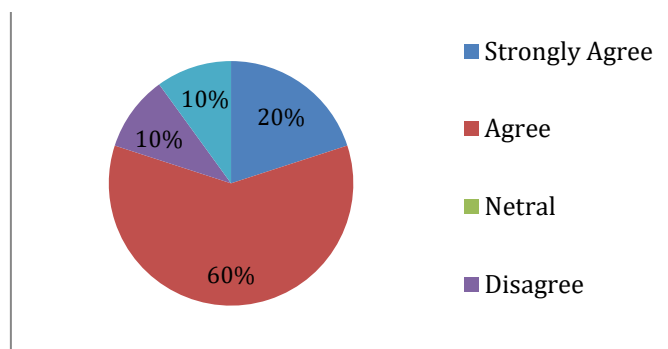
The qualitative descriptive method according to (Winartha (2006:155), 2022) is an activity of analyzing, describing, and also summarizing various data from several conditions and situations from interviews or observations in the field. By using qualitative descriptive methods, there are benefits felt in this research, namely that researchers are able to describe or describe the research flow flexibly and with very open research problems. Data collection was carried out through questionnaires to 7th semester students of English education regarding their perceptions of ChatGPT.

## Result and Discussion

The results of the data obtained by researchers from distributing questionnaires to 10 English language education students who have published papers are presented in the

form of pie charts for each question in the questionnaire. the following is a presentation diagram of the research results.

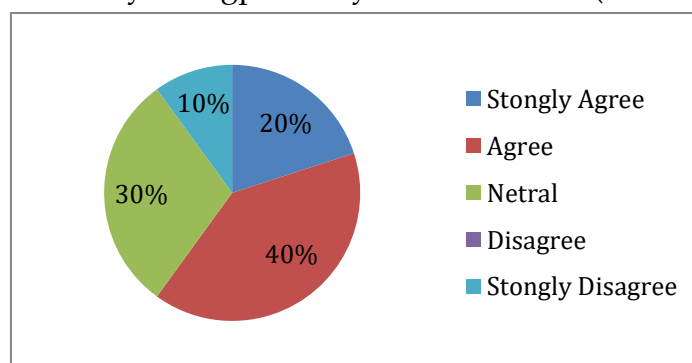
1. ChatGPT makes it easier for me to create support for thesis statements in writing papers. (10 Respondents)



**Figure 1.** Respondents' percentage for the first question

Figure 1 shows the highest presentation, 60% of respondents agreed that ChatGPT makes it easy to create support for thesis statements in writing scientific papers. 20% strongly agree, 10% disagree and 10% strongly disagree.

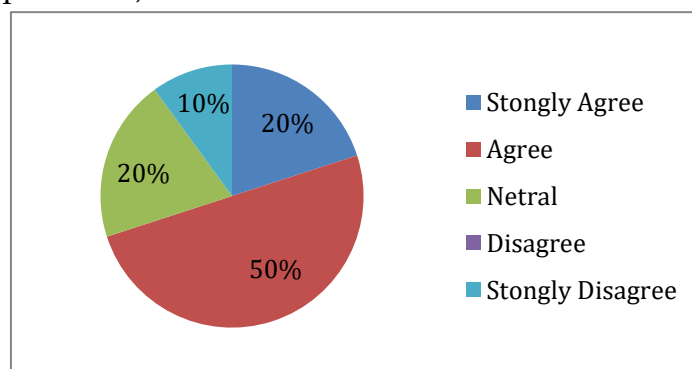
2. The writing produced by Chatgpt is easy to understand. (10 Respondents)



**Figure 2.** Percentage of respondents for the second question

Figure 2 shows the highest percentage of 40% of respondents agreeing that the text produced by ChatGPT is easy to understand. 30% were neutral, 20% strongly agreed and 10% strongly disagreed.

3. ChatGPT improved my critical thinking in building support in writing scientific papers. (10 Respondents)



**Figure 3.** Percentage of respondents for the third question

Figure 3 shows that the highest percentage of respondents, 50%, agreed that ChatGPT can improve critical thinking in building support in writing scientific papers. 20% strongly agreed, 20% were neutral and 10% strongly disagreed.

4. Using ChatGPT makes me aware of technological developments in assisting the writing of scientific papers. (10 Respondents)

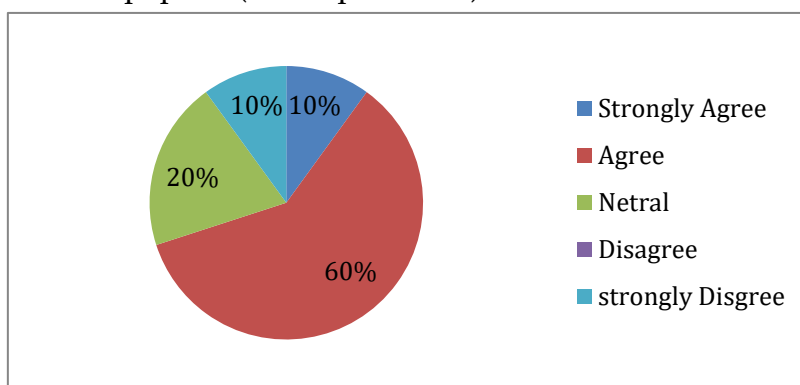
**Figure 4.** Percentage of respondents for the fourth question

Figure 4 shows the highest percentage of 60% of respondents agreeing that using ChatGPT makes them more aware of technological developments in helping to write scientific papers. 20% were neutral, 10% strongly agreed and 10% strongly disagreed.

5. It's fun to use ChatGPT to help write articles (10 Respondents)

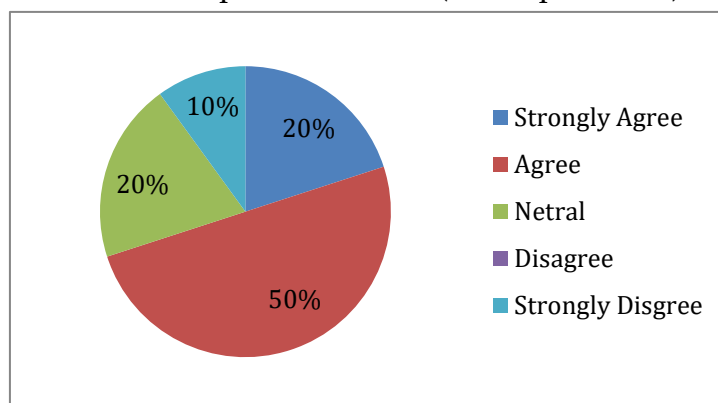
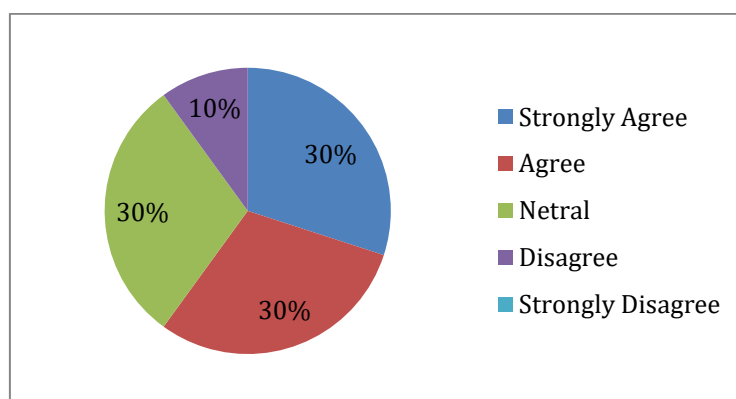
**Figure 5.** Percentage of respondents for the fifth question

Figure 5 shows that the highest percentage of respondents, 50%, agreed that it was fun to use ChatGPT to help write scientific papers. 20% strongly agreed, 20% were neutral and 10% strongly disagreed.

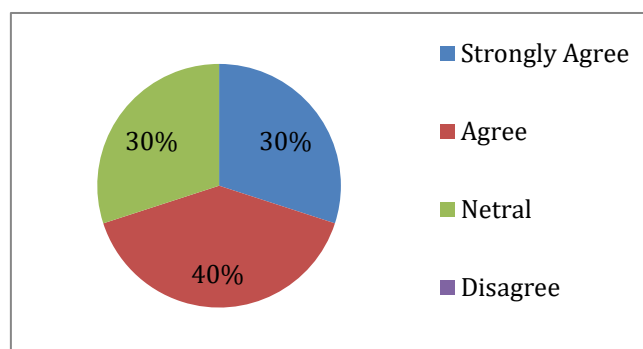
6. I am satisfied with my scientific writing assisted by ChatGPT. (10 Respondents)



**Figure 6.** Percentage of respondents for the sixth question

Figure 6 shows the highest percentage of 30% strongly agree, 30% agree, 30% neutral respondents that are satisfied with the scientific writing assisted by ChatGPT, and 10% disagree.

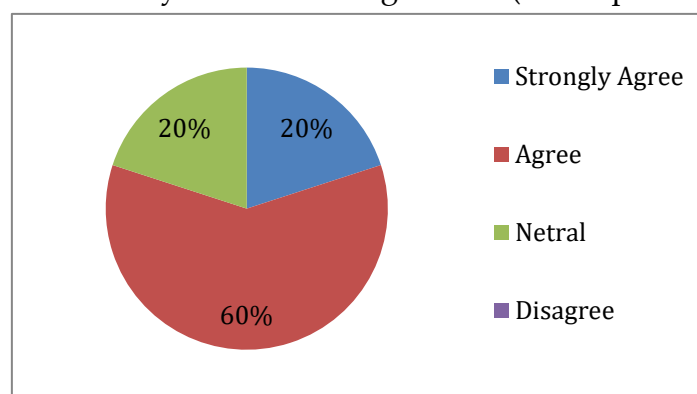
7. I am very satisfied with the speed of the writing article produced by ChatGPT. (10 Respondents)



**Figure 7.** Percentage of respondents for the seventh question

Figure 7 shows the highest percentage of 40% of respondents agreeing with the speed of writing results produced by ChatGPT. 30% strongly agree and 30% neutral.

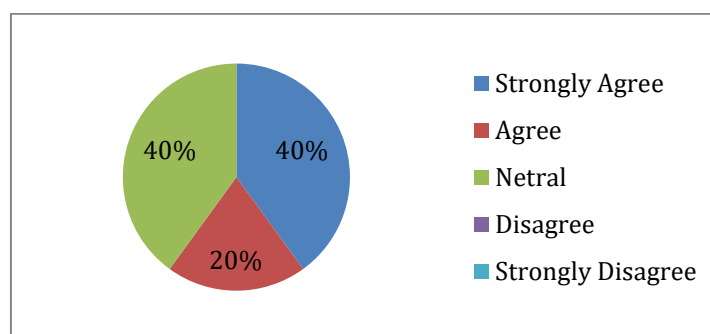
8. ChatGPT helps shorten my time in writing article. (10 Respondents)



**Figure 8.** Percentage of respondents for the eighth question

Figure 8 shows the highest percentage of 60% agreeing that ChatGPT helps shorten time in writing scientific papers. 20% strongly agree and 20% are neutral.

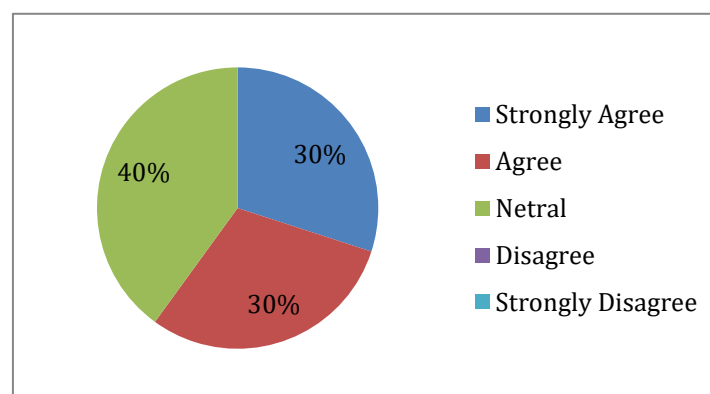
9. I often use ChatGPT to help me write article. (10 Respondents)



**Figure 9.** Percentage of respondents for the ninth question

Figure 9 shows the highest percentage of respondents 40% strongly agree and 40% neutral that often use ChatGPT to help in writing scientific papers, and 20% agree.

10. ChatGPT makes me more active in making good and quality scientific work. (10 Respondents)



**Figure 10.** Percentage of respondents for the tenth question

Figure 10 shows the highest percentage of 40% neutral respondents that ChatGPT makes them more active in making good and quality scientific work. 30% strongly agree and 30% agree.

Based on the results of the research that has been conducted is that English Language Education Students at Universitas Muhammadiyah Bengkulu use ChatGPT to assist in writing scientific papers. Researchers collected 10 respondents from 7th semester students who had published papers and used 10 questions in the questionnaire. It contains questions about the ease and benefits of ChatGPT in assisting in writing scientific papers.

The result is that almost all students who have published scientific work use ChatGPT to help write it. Indicator of the percentage of ease of using ChatGPT 60% of students answered agree 20% answered strongly agree, 10% answered neutral and 10% answered disagree. For the percentage indicator of the benefits provided by ChatGPT 70% answered Neutral, 20% answered agree and 10% answered disagree.

The conclusion is overall about student perceptions of the use of ChatGPT in helping to write scientific papers. in the indicator of ease of using ChatGPT in helping to write scientific papers indicates that students consider ChatGPT to make it easier for them to create scientific papers. However, there are also students who disagree with the convenience offered by ChatGPT.



In the indicator of the benefits of using ChatGPT to help assist them in writing scientific papers, it shows that students still rarely use ChatGPT to help them in writing scientific papers. but there are some students who use ChatGPT to help write scientific papers. Overall, the results of the questionnaire answers provide an overview of how students perceive the convenience and benefits related to the use of ChatGPT to assist in writing scientific articles.

## Conclusion

Based on the research that has been done, it can be concluded that students have a positive perception of the use of ChatGPT as a tool to help write scientific papers. In general, students feel that using ChatGPT is easy. and consider ChatGPT can provide benefits in improving quality, creativity, knowledge, and skills in making scientific papers. However, there are some students who experience difficulties when accessing ChatGPT and there are students who do not fully use ChatGPT to help write scientific papers.

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