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THE EFFECTS OF USING CHATGPT AS AN ARTIFICIAL INTELLIGENCE RESOURCE FOR WRITING ASSIGNMENTS

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Abstract

This study explores the impact of using ChatGPT, an artificial intelligence (AI) model developed by OpenAI, on students' performance in writing assignments. As ChatGPT becomes increasingly integrated into educational settings, it may influence students' ability to complete assignments and potentially diminish their interest in traditional learning methods. The research employed quantitative methods, utilizing a close-ended questionnaire as the primary instrument. The sample consisted of 30 students from various institutions, including Muhammadiyah University, Darussalam Gontor University (UNIDA), and State Islamic Ar-Raniry University. The findings indicate that relying on ChatGPT for writing assignments can affect students' independence and reduce their engagement with traditional learning approaches. Students who excessively depend on ChatGPT for writing may experience a decline in their critical and analytical thinking skills. However, when used wisely, ChatGPT can enhance the quality of learning and increase the efficiency of completing assignments

Keywords: ChatGPT, Artificial Intelligence, Writing Assignment

A. INTRODUCTION

Various aspects of human life are currently undergoing profound changes as a result of technological advances in the digital era and their increasing level of use. Supriyadi and Asih (2020) support this idea by saying that the industrial revolution 4.0 is the fourth industrial transformation characterized by rapid technological development and how technology can be used to produce new things that have never happened in previous industrial revolutions. One example is the rise of AI, or artificial intelligence technology, which is an example of the fourth industrial revolution. There are AI language processing models such as the Generative Pre-trained Transformer, also called ChatGPT. The number of current ChatGPT users has also increased rapidly. As one of the most advanced chatbots today, ChatGPT has become the talk of the town and is breaking new records as a tech phenomenon today.

The presence of ChatGPT is very helpful in academics and learning, (Setiawan,2023) stated that by using effectively formulated and directed prompts, https://journal.ar-raniry.ac.id/ICELT
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International Conference on English Language Teaching

English Language Education Department Fakultas Tarbiyah dan Keguruan UIN Ar-Raniry Banda Aceh Volume 1, Number 1, 2024

ChatGPT can be used to create writing that has scientific characteristics, and AI technologies such as ChatGPT have both positive and negative effects on students' assignment. A study conducted by (Gradede,2023) showed that ChatGPT can assist student learning. students in developing ideas, writing essays, and acquiring knowledge of new concepts, ChatGPT can help improve students' students' language skills and problem-solving abilities.

ChatGPT is capable of performing several tasks, such as translating text, encoding images, and answering specific questions, the use of ChatGPT in education has a lot of potential, similar to its ability to assign tasks based on a tight tolerance level. The purpose of this study is to identify the impact on students when doing assignments using Chat GPT (Mahapatra, 2024). The use of ChatGPT in academia has led to various debates that are still ongoing today. The use of ChatGPT basically has positive benefits and goals in the academic field, however, on the other hand, there are also negative implications.

Doing assignments is an important part of undergraduate studies, especially in the Education department. Writing assignments is quite difficult for students. Assignments are useful, therefore students can be creative in writing and learn scientific writing. But, many students struggle with the writing process, such as choosing the right topic, using the right vocabulary, and creating structured writing, therefore they use ChatGPT as a tool in doing assignments. To ease the user's task, ChatGPT can be used to translate languages, create original text, help programmers solve code problems, re-explain concepts in a simple form, and create drafts or even outlines of articles. ChatGPT also has some additional functions (Saraswati, Karmiana, & Candrakanti, 2023), as shown below: (1) Answering general questions. (2) Paraphrasing, This can be done to update the text to make it different from the previous paragraphs (3) Assist in writing, and help students with writing, and editing stories, articles, or other materials. (4)Translation, translate a text into another language with reasonable accuracy,(5) Idea generation and brainstorming, This can help users find new ideas to write about research-related matters.

ChatGPT has been trained on billions of words from diverse sources and is now

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International Conference on English Language Teaching

English Language Education Department
Fakultas Tarbiyah dan Keguruan UIN Ar-Raniry Banda Aceh
Volume 1, Number 1, 2024

available in multiple languages, including English. The model is considered advanced due to its capability to support various languages globally, including Indonesian. ChatGPT employs an "Autoregressive Language Modeling" technique to generate responses (Rachibini & Evi, 2023). This method allows it to analyze previous text to construct sentences repetitively and create coherent paragraphs that align with the user's queries. it is also capable of performing several tasks, such as translating text, encoding images, and answering specific questions, the use of ChatGPT in education has a lot of potential, similar to its ability to assign tasks based on a tight tolerance level. The purpose of this study is to identify the impact for students when doing assignments using ChatGPTA study conducted by Gradede (2023) showed that ChatGPT can assist student learning. Students develop ideas, write essays, and acquire knowledge of new concepts.

This study has several previous studies, one of which is "The phenomenon of using the ChatGPT application in doing college assignments" by Qurratul Aini (2021) from Kiai Haji Achmad Siddiq State Islamic University Jember The results of this study show that the period of use of ChatGPT reaches from 2 months to almost 2 years, where its use does not violate the ethics of academic learning. The use of ChatGPT is also managed wisely by users by paraphrasing answers and developing them so that they become original work and do not contain plagiarism. The use of ChatGPT has so far been considered unproblematic, both in terms of personal use and special policies from related campuses.

A second previous study was written by Alvian (2023), Indonesia University Of Education. The title is "The Effect Of Using Chatgpt In Optimizing The Student Thesis Writing Process". The findings produced by this research are The effect of using ChatGPT in the process of optimizing thesis writing for students in the study program is that the higher the use of ChatGPT, the optimization of thesis writing will also increase. The use of ChatGPT met their expectations in terms of ease and efficiency. They also recognized the importance of validating and editing to ensure good-quality writing. In addition, the cause of students using ChatGPT are close to accurate, the researchers want to know:



International Conference on English Language Teaching

English Language Education Department Fakultas Tarbiyah dan Keguruan UIN Ar-Raniry Banda Aceh Volume 1, Number 1, 2024

- 1. What is the purpose of students using the "ChatGPT" resource to complete writing assignments?
- 2. What is the Effect Effect use of ChatGPT for completing student writing assignments?

B. METHOD

In this study, the research design used was quantitative research. Quantitative research involves collecting and analyzing numerical data to test hypotheses, identify patterns, and make generalizations across populations. Descriptive research focuses on summarizing and describing the characteristics or facts related to specific populations or fields. In general, quantitative research is a large sample study.

This Study was conducted at 3 Universities there are University of Muhammadiyah Aceh, the University of Islam Negeri Ar-raniry (UIN) at Aceh, and the University of Darussalam Gontor (Unida) at Ponorogo. This study was for students who are learning writing which consisted of 30 students.

The instrument used in this research was a questionnaire. The questionnaire is a data collection technique that is carried out by providing a collection of questions or written statements for respondents to answer (Sugiyono, 2012). The questionnaire was adapted from several studies that had variables that were close to this research.

The researcher utilized a questionnaire to gather students' opinions on the challenges of using ChatGPT for writing assignments. The survey was created using Google Forms, and respondents were asked to complete the questionnaire online on their own. The researcher distributed the questionnaire via Google Form, sharing it with respondents through a WhatsApp Messenger group. Data collection involved gathering and analyzing responses from students who completed the questionnaire. Since the researcher aimed to obtain detailed descriptive information directly from the participants, the questionnaire was used to collect more specific data.

C. RESULTS AND DISCUSSION

This section presents the data obtained based on the characteristics of quantitative research. The data is derived from the analysis of quantitative responses gathered through the questionnaire. The responses were calculated and tabulated into

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International Conference on English Language Teaching

English Language Education Department Fakultas Tarbiyah dan Keguruan UIN Ar-Raniry Banda Aceh Volume 1, Number 1, 2024

a table, which organizes the values and amounts of the respondent data. This tabulation facilitates further statistical calculations, allowing for the determination of the selected values. The analyzed results are then detailed in the research discussion section. The data was obtained from the questionnaire as follows:

Table 1. Questionnaire

No	Question	Percentage	Answer
1	I often use ChatGPT to help writing	43%	A
	assignments		
2	I feel faster completing writing assignments with ChatGPT	53%	A
3	I Use of ChatGPT reduces time on assigments	53%	A
4	I feel confident with writing assignments using ChatGPT	37%	N
5	I use ChatGPT to help easier to do difficult writing assignments	50%	A
6	I Use ChatGPT improves the quality of my writing assignments	37%	A
7	I Use ChatGPT affects your writing assignments skills	37%	A
8	I Use ChatGPT make lazy to think writing assignments	33%	N
9	I Use ChatGPT makes less trained to understand the assignments material independently	50%	A
10	I fell that my writing skills have decreased with ChatGPT	38%	A
11	I fell ChatGPT brings negativity to student	37%	N
12	Use of ChatGPT provides inaccurate assignments	50%	A
13	I fell too dependent on ChatGPT fot writing assignments	30%	D
14	I fell use of ChatGPT reduces traditional study time	60	A
15	I fell Analytical skills decreased to over- dependence ChatGPT	33%	N



International Conference on English Language Teaching

English Language Education Department Fakultas Tarbiyah dan Keguruan UIN Ar-Raniry Banda Aceh Volume 1, Number 1, 2024

Based on the results of 30 respondents' responses to questions related to effect using ChatGPT as an AI for resource writing assignment, some general conclusions can be drawn. The result indicated that the majority of respondent that the use of ChatGPT had an impact on their personality and the quality of their assignments, and the use of ChatGPT had an impact on their dependence on doing their writing assignments. The results also showed that most respondents considered the use of ChatGPT to be helpful in the effectiveness of their assignments as seen in questionnaires numbers 1, 2, 3, 4, 5, and 6, which showed the majority of respondents agreed with the increase in the effectiveness of their assignments. Showed that the majority of respondents agreed and were neutral about the effectiveness of using ChatGPT in their assignments.

From the results of the data above, the use of ChatGPT is a very useful tool for students in helping them understand difficult material and in working on difficult assignments as evidenced in point no. 5 Students can get support and wide range of knowledge through ChatGPT instantly. Students can ask specific questions or request explanations on concepts that are difficult to understand. ChatGPT will provide complete and adequate answers, as well as direct assistance in solving problems and clarifying complex concepts. ChatGPT has been proven to help most students understand difficult material better. Although there are some differing opinions, it cannot be denied that ChatGPT provides instant solutions, clear explanations, and access to a wealth of knowledge.

Learning with ChatGPT saves time. Students can quickly ask ChatGPT questions or request explanations about the subject matter, and they will receive relevant information and solutions. This reduces the time usually spent searching for answers or studying the material independently. Students can use time more effectively and improve learning outcomes. ChatGPT is not supposed to be used as a substitute for conventional learning methods instead, it should be used as an adjunct that can improve access to information. The difference in opinion between students shows a variety of perspectives on the impact of ChatGPT on study time allocation.



International Conference on English Language Teaching

English Language Education Department
Fakultas Tarbiyah dan Keguruan UIN Ar-Raniry Banda Aceh
Volume 1, Number 1, 2024

Moreover, the results also showed; most respondents considered the use of gave the effect on their assignments as seen in questionnaires numbers 8,9,10, 11, 14, and 15, which showed the majority of respondents agreed that ChatGPT gave the effect on their writing assignments. Over-reliance on ChatGPT could hinder students' ability to develop their own writing skills. Students use ChatGPT for writing too often, they may lose the ability to think critically and analytically. The relationship with ChatGPT for users, where behavior will affect them in the learning process, can be misused because the results of ChatGPT are not necessarily valid. If someone uses ChatGPT properly, (Ramadhan & Kartikasari, 2023)the affective effect will be good. Vice versa, ChatGPT is used poorly, then the impact is also bad for both personal and related parties.

Shortly, ChatGPT can help students reduce the amount of time they spend studying. There are differing opinions on this, but students should see ChatGPT as a complement that helps them get more information while still appreciating traditional learning methods.

Another finding of the study is that ChatGPT has several positive and negative aspects: the positive impact of using OpenAI's ChatGPT for completing student writing assignments includes its ability to assist students by generating contextually appropriate text, allowing them to finish their assignments more quickly and focus on other learning areas. ChatGPT's capability to produce accurate text boosts students' confidence in their writing tasks. Additionally, ChatGPT offers advice on grammar, spelling, and writing style, enhancing the overall quality of the writing. It also aids with challenging assignments by providing quick access to information and resources, helping students find references, and offering clear, structured explanations to help them understand complex concepts (Saputra, 2023).

The use of ChatGPT can have negative consequences, as students may become overly reliant on it for instant answers, potentially hindering the development of their critical thinking, problem-solving, and self-learning skills. There is also the risk that the information provided by ChatGPT may not be entirely accurate or relevant. Relying on ChatGPT without cross-referencing other sources could lead to misunderstandings.



International Conference on English Language Teaching

English Language Education Department
Fakultas Tarbiyah dan Keguruan UIN Ar-Raniry Banda Aceh
Volume 1, Number 1, 2024

However, based on this discussion, it can be concluded that using ChatGPT in writing assignments has a positive impact by fostering students' learning independence and boosting their confidence.

In short, the use of ChatGPT in writing assignments can have a notable impact. It can enhance efficiency, generate ideas, and aid in the swift composition of texts. However, excessive reliance on ChatGPT may undermine independent writing skills, decrease a deep understanding of the material, and impair critical thinking abilities.

D. CONCLUSION

The use of ChatGPT in the learning process in education shows both positive and negative. Some studies have found that ChatGPT can enhance learning by helping students with writing assignments, and improve writing and problem-solving. However, there are also potential dangers. such as dishonest behavior and decreased creativity. Although the use of ChatGPT can help in the comprehension of the material, it should be balanced with the enhancement of creative skills and critical thinking.

To face the potential positives and negatives of using ChatGPT in doing assignments, students must know that it should be used as a tool, not a substitute for social interaction, discussion, and active engagement. students should know that ChatGPT should be used as a tool, not a substitute for social interaction, discussion, and active engagement in learning.

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International Conference on English Language Teaching

English Language Education Department Fakultas Tarbiyah dan Keguruan UIN Ar-Raniry Banda Aceh Volume 1, Number 1, 2024

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