



Teachers' Perception on Using Artificial Intelligence (AI) in Teaching English

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ABSTRACT

This research aims to know teachers' perceptions of the benefits and challenges they faced when using Artificial Intelligence (AI) in learning. The method used in this study is qualitative, and the participants in this study consisted of two teachers from SMP Negeri 20 Pulau Morotai, one teacher from SMA Muhammadiyah I Morotai and one of MAS. Nurul Huda Gotalamo. The researcher collected data using three research instruments, namely interviews, questionnaires, and written reflection. The data were analyzed using Thematic Analysis. The results of this study indicate that Artificial Intelligence (AI) has a positive impact or benefits on learning, such as helping teachers to search necessary material, becoming interesting learning tools, and increasing students motivation to learn. while the challenges are the students who are unfamiliar with the use of Artificial Intelligence (AI).

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ABSTRACT

Penelitian ini bertujuan untuk mengetahui persepsi guru terhadap manfaat serta tantangan yang dihadapi saat menggunakan Artificial Intelligence (AI) dalam pembelajaran. Metode yang digunakan dalam penelitian ini adalah qualitative, Partisipan dalam penelitian ini terdiri atas dua guru dari SMP Negeri 20 Pulau Morotai, satu guru dari SMA Muhammadiyah I Morotai dan satu dari MAS. Nurul Huda Gotalamo. peneliti mengumpulkan data dengan menggunakan tiga instrumen penelitian, yakni wawancara, angket dan menulis refleksi. Data dianalisis menggunakan Tematik Analisis. Hasil dari penelitian ini menunjukan bahwa Artificial Intelligence (AI) memberikan dampak positif dan manfaat dalam pembelajaran, seperti membantu guru, menjadi media pembelajaran yang menarik serta meningkatkan motivasi belajar siswa, sedangkan tantangannya yaitu siswa yang belum familiar untuk penggunaan Artificial Intelligence (AI).

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INTRODUCTION

English is one of the foreign languages learned by students in Indonesia and be one of the most important skills. As time evolve, learning English becomes increasingly necessary not only in the education sector but also beneficial for work and community life in the future, English itself consists of four important skills, namely listening, speaking, reading, and writing. However, mastering these skills is certainly not easy, as there are still students who have difficulty learning them, this situation can make students lost their interest and motivation in learn English. This situation requires teachers to be more diligent in finding the right and effective ways to address the issue. One alternative that can be tried is to use artificial intelligence, Especially in today's era where technology is increasingly advanced and artificial intelligence is also developing by providing various features and applications that can be beneficial or serve as alternatives for teachers to address their problems in teaching English.

Artificial Intelligence is a growing field in the 21st century and has the potential to transform education, making it more personalized, efficient, and effective (Lucci et al. 2022), Artificial Intelligence technology was perceived as most suitable method for assisting activities in class and for problem-based learning. Factors which influence the use of Artificial Intelligence in education were learning contents, learning materials, and Artificial Intelligence tools, Artificial Intelligence in education had the features of personalized learning, promoting students' participation, and provoking students' interest (Jong Han et al, 2020). Because of this the researcher conduct research aims to know teachers' perceptions of the benefits and challenges they faced when using Artificial Intelligence (AI) in teaching English

RESEARCH METHOD

The method used in this study is qualitative, this research conducted at 4 different schools namely SMP Negeri 20 Pulau Morotai, SMA Muhammadiyah I Morotai and of MAS. Nurul Huda Gotalamo, the data collected using three research instruments, namely interviews, questionnaires, and written reflection and then analyzed using Thematic Analysis, Thematic analysis is a method for identifying, analysing, and reporting a theme within the data. (Braun & Clarke, 2006:79

RESULT AND DISCUSSION

A. Result Finding

This research consists of four participants, two of whom have previously used Artificial Intelligence, while the other two are familiar with artificial intelligence but have not used it during the learning process. In this research, the selection of participants and AI used are categorized as random, consisting of participants 1 and 3 have previously used artificial intelligence, while participants 2 and 4 are familiar with artificial intelligence but have not applied it during the learning process. The participants in this study used several different types of AI, where participant 1 used ChatGPT and Quizizz, while participant 3 used ChatGPT and Meta-AI.

In this research, the data is described based on the themes created from the results of the research on each instrument such as interviews, questionnaires, and written reflection used to collect data.

a. Interview

In the first instrument, there are three themes obtained after processing the data, namely advantages of using artificial



intelligence, disadvantages of using artificial intelligence, and challenges of using artificial intelligence.

a). Advantage of Using Artificial Intelligence

The use of artificial intelligence received positive responses from respondents regarding its benefits in learning. Respondent 1 said *“I use AI when I am preparing modules or searching for materials to help me find suitable materials, searching manually takes quite a long time, but if I use AI, I can get the results faster”*. Respondent 3 added *“The benefit is that we can obtain insights about materials or learning techniques from English more quickly.”*. Respondent 1 stated that *“there is a positive effect of AI usage because students essentially enjoy technology-related things”*

Furthermore, by using artificial intelligence, it can make it easier for teachers to find the necessary learning resources, the use of artificial intelligence in the education sector has a positive impact on students. The positive impact of AI in learning is not only beneficial for teachers, who can utilize it as a learning resource and an engaging teaching medium, but it is also effective in enhancing student motivation and can serve as an alternative to improve the quality of education.

b). Disadvantages of Using Artificial Intelligence

With the benefits of using AI in learning, there are also the weakness to its use. Respondent 1 said that *“the use of artificial intelligence does make things easier, it is indeed effective, but it tends to make students unable to think critically, their problem-solving skills diminish because the results are more instant”*. Respondent 2 added *“there are some students who only use AI as a means to*

obtain information and do not develop it, so they tend to rely more on AI”.

Because its presence provides convenience for students, it causes some students to become more dependent by choosing to use easier and faster methods. This dependency makes students unable to think critically and only rely on AI to complete tasks, which results in a decline in problem-solving skills and a reduced desire for students to explore and develop the material they receive. But it all depends on how the students and teachers must be more careful and wise in using it.

c). Challenge of Using Artificial Intelligence

The use of AI in learning has a positive impact that can be utilized by both teachers and students, but behind that, there are challenges that must be faced. Respondent 1 said that *“The challenge itself is the students who are not yet familiar with the use of AI itself”*. Respondent 3 said *“on the other hand, the obstacle may be that not all students have smartphones”*.

It cannot be denied that AI has useful benefits for both teachers and students, which is why more and more teachers and students are using it. However, behind this, there are always challenges that must be faced when using it. This cannot be denied because even though it can make things easier for users, there are still those who must deal with challenges such as a lack of understanding of how to use AI and insufficient facilities to access AI.

b. Questionnaire

In the data collection instrument using a questionnaire, there are five themes, namely students learning motivation, helping teachers in teaching, interesting learning tools, and hard to take the material, with a percentage consisting of 100% in



each theme, with each of the four participants teachers contributing to a percentage of 25%.

a). Students' Learning Motivation

Related Statements :

S16: The use of Artificial Intelligence makes the learning atmosphere more fun

Results 100% (75% Agree, 25% Disagree)

The percentage showed that 75% of respondents agree while 25% disagree. The large percentage of agreement and small percentage of disagreement indicates that the majority of respondents approve of the use of AI as a tool or medium for learning, making the learning environment and atmosphere more enjoyable. This, in turn, will help increase students' motivation and interest in learning.

b). Helping Teacher in Teaching

Related Statements:

S19 : Artificial intelligence assists teachers in finding relevant learning sources according to their needs.

Results 100% (75% Agree, 25% Strongly Agree)

The percentage of 75% agree and 25% strongly agree, indicating that AI can be one of the alternatives that can be utilized to assist teachers in finding the information sources or learning resources needed by teachers. This will certainly be very beneficial for teachers as it can make it easier for them to search for and obtain learning resources more easily and quickly, compared to searching manually which will take a bit longer than using AI.

c). Interesting Learning Tools

Related Statements:

S4 : Learning becomes more interesting when using Artificial Intelligence

Results 100% (75% Agree, 25 Disagree)

The percentage shows that 75% of participants agree and 25% disagree. The low percentage of disagreement among participants indicates that more participants believe that learning is more interesting when using engaging media such as AI. This is what can make students more curious and interested in the experiences or what they will gain when learning with such media. This will trigger students to take the initiative to learn due to their curiosity about it.

d). Hard to Take the Material

Related Statements:

S11: Students have difficulty receiving the material when teaching using artificial intelligence.

Results 100% (75% Disagree, 25% Neutral)

The percentage shows that 75% of participants disagree and 25% are neutral or still uncertain about their choice. However, the high percentage of disagreement indicates that the majority of teachers do not agree that students cannot absorb the material they receive from the use of AI during learning. This shows that AI can be used as one of the media in learning.

c. Written Reflection

The last data collection instrument consists of three themes, namely :

a). Teachers' Perception to the Use of AI in Teaching

The emergence and development of AI in various fields and aspects of life, one of which is in the field of education, has received a variety of responses. Respondent 3 said that *"with the advancement of*



technology, we as teachers must also keep up with the times, one of which is using or utilizing AI during teaching, because AI not only helping teachers, but AI can be used to facilitate students in learning English". Respondent 1 also stated that *"in my opinion, it is quite effective and beneficial for both students and teachers, because this AI can help increase students' interest in learning and also the use of AI makes it easier for students to find solutions to problems"*.

It is no longer a new thing that the development of AI is rapidly advancing in various parts of the world and becoming more recognized, especially where we will find various things related to technology, including in the field of education. This can be one of the driving factors for teachers to try using AI in teaching to enhance creativity or create an interesting learning environment.

b). Reasons for using Artificial Intelligence

Behind the impacts felt from its usage, there are several reasons why AI is utilized. Respondent 3 stated that *"the reason I utilize AI during learning is to assist me in correcting accents, grammar, and student pronunciation during speaking"*. Respondent 1 also mentioned that *"the reason I utilize AI is to make it easier for me to find relevant material more quickly compared to searching for it manually"*.

From the statement regarding the reasons why teachers use AI during learning above, it can be concluded that it is becoming increasingly popular due to the various benefits it provides, including making it easier and assisting teachers in finding the educational materials they need more quickly compared to doing it manually, and it also helping during the learning process.

c). The Impact of Artificial Intelligence on Learning Motivation

The use of AI in learning has a very positive impact on both students and teachers. Respondent 1 stated that *"the presence of this AI usage indeed has an impact on students, one of which increases their interest in learning because students are fond of technology"* Respondent 2 mentioned that *"it might improve students' learning motivation because AI itself has advantages such as providing various information."*

By applying AI in learning, it has a positive impact that can be seen through the increased interest in studying among students due to the benefits provided by AI itself. As stated by the participant above, AI can attract students' attention because it is technology-related, which currently is something that is in demand or liked because it is considered easier and more practical, like Artificial Intelligence.

B. Discussion

Based on the analysis of data from the three instruments above, the results showed that the use of AI in learning has a positive impact on teachers and students, such as in organizing learning materials, increasing student motivation, and providing engaging learning media. However, there are challenges that must be faced when using AI, such as the students who are not yet familiar with AI. Whether it's AI that may still be difficult to access due to quota or smartphone limitations, there are also shortcomings of AI that may make teachers and students dependent because it is easier, which causes students not to be able to think critically. However, this depends on how users utilize it and they must be wise in using it.

research show the benefits for both teachers and students from the use of AI



CONCLUSION

The results indicate that the use of AI in teaching English provides benefits such as assisting teachers, engaging learning tools, increasing students' motivation to learn, being effective when used, and having the potential to improve the quality of education to a better level, while the challenges are students who are not familiar with the use of Artificial Intelligence (AI), students difficult to access Artificial Intelligence (AI) due to quota or smartphone limitations.

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