STUDENTS' PERCEPTIONS OF USING ARTIFICIAL INTELLEGENCE (AI) IN ENGLISH: A CASE STUDY AT STAIN TEUNGKU DIRUNDENG

THESIS

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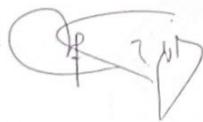the requirements for the Bachelor's Degree (S-1)
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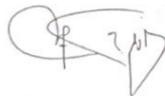
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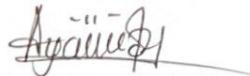2 Muharram 1446 H

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MOTTO

"God have perfect timing, never early, never late. It takes a little patience and it takes a lot of faith, but it's a worth the wait."

"The scary news is you're on your own now, but the cool news on your own now"
(Taylor Alison Swift)

"Orang lain gak akan paham *struggle* dan masa sulitnya kita, yang mereka ingin tahuhanya bagian *succses storiesnya* aja. Jadi berjuanglah untuk diri sendiri meskipun gak akan ada yang tepuk tangan. Kelak diri kita di masa depan akan sangta bangga dengan apa yang kita perjuangkan hari ini.
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"Allah tidak membebani seseorang melainkan sesuai dengan kesanggupannya. Dia mendapat (pahala) dari (kebijakan) yang dikerjakannya dan mendapat (siksa) dari (kejahatan) yang diperbuatnya."
(Q.S Al-Baqarah :286)

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Shalawat and salam to the Prophet Muhammad (SAW), along with his family and friends who have brought his people from the realm of ignorance to a realm full of knowledge.

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In this writing, the author is well aware that the content is far from perfect. Therefore, the author welcomes criticism and suggestions that can build from various parties so that this thesis is even better. Hopefully this thesis can benefit the author himself and all readers.

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Penulis

Table of Content

ABSTRACT

This study aims to determine students' perceptions of the using of Artificial Intelligent (AI) in English language learning as well as the benefits and obstacles they find and experience while using AI. The samples of this research are four students of English Department of STAIN Teungku Dirundeng who have used Artificial Intelligent. This research uses a qualitative method that uses criterion sampling to get a clearer picture of the use of AI in English language learning by obtaining data through interviews. The results show that students' perceptions of using AI are very helpful in doing the tasks at hand. The use of AI is very limited so that students do not feel dependent on using it. The advantages obtained by students in using AI are that AI provides positive feedback, there are many variations or choices that can be used by students, and AI is also an alternative solution compared to traditional methods. In addition, this study found challenges or obstacles that students experience when using AI such as different application displays between mobile phones and laptops, as well as other obstacles such as poor connections.

Keywords : Artificial Intelligence, English Learning, Students' Perception

CHAPTER I

INTRODUCTION

A. Background

The use of digital media in learning opens up new opportunities for teachers to improve the quality of their teaching, make learning more accessible for teachers and students, and provide opportunities for students to think creatively and work together. In addition, this technology allows students to customize lessons to individual learning styles.

According to Isal and Syifa, in the era of the Industrial Revolution 4.0, digital media has a significant impact on all aspects of life, including education. Using digital media in the learning process is one way for teachers and students to keep up with technological developments, as it makes learning English easier due to the suitability of many applications for digital media.[1]

In recent years, AI has attracted great attention in English language teaching, offering innovative approaches to enhance the learning experience. The application of AI has diversified into various aspects of language teaching, providing new opportunities for personalized and adaptive learning. AI that is often used in English language learning has various types and its own benefits, for example, ChatGPT (Chat Generative Pre-trained TRansformer) to answer difficult questions, Duolingo to learn many languages, Grammarly to check for grammar mistakes, Google Translate to trasnlating the languages, Quilbot paraprhasing, and others.

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[1] Isal, Salman Al-farizi, & Syifa, Aulia Zahra Suherman, Vol. 1, 2019. Pg. 17

According to Subiyantoro et al, the invention of new artificial AI chatbot technologies such as ChatGPT in early 2023 has led to significant changes in English language teaching and learning.[2] According to Huang et al, English teachers have the opportunity to integrate artificial intelligence into their learning because AI brings many benefits, for example, AI-powered applications can help students learn languages and practice daily speaking. Kohnke, L et al stated, events, encourage students to be more enthusiastic about learning English.[3]

According to Mario and Kevin, AI has received significant attention in education in recent years, as a growing body of research investigates the potential benefits and challenges of integrating AI-based technologies into the curriculum. In the field of language education, several studies are being conducted to explore the potential of AI to support the language learning process. This section provides an overview of the existing literature on the use of AI in language teaching, with a particular focus on English language teaching for teaching English.[4]

Understanding the relationship between students' perceptions of AI and learning outcomes can help explore the extent of students' attitudes towards technology. This can be useful information in planning more effective teaching strategies. information from the study can help curriculum development and education in designing teaching materials and methods by incorporating AI in an effective way according to students' perceptions and their needs.

The students' perception is a critical part toward the success of leaning online system. According to Wang, an important cognitive function in the unconscious layer

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[2] Hariyanto Subiyantoro, et. al. / Prosiding Seminar Nasional Pascasarjana UNNES 2023: 346-349

[3] Kohnke, L., Moorhouse, B. L., & Zou, D. ChatGPT for Language Teaching and Learning, 2023

[4] Journal Edición Especial, Integración de la Inteligencia Artificial en la Educación del Idioma Inglés en Ecuador: Un Camino para Mejorar los Resultados del Aprendizaje, V8-N3-1 (jun) 2023, hlm 681

that envisions personality is perception[5]. According to Alizamar and Couto, there are six definitions of perception: knowledge relating to information, needs relating to interpretation, beliefs relating to beliefs, values relating to traits or qualities, assumptions relating to perception, and attitudes relating to the way one thinks and acts towards something.[6]

The students' perception can be described as the developed opinion after having a certain experience and activity that needs adjustment. There will be some perceptions who the students of use AI in English learning in University (a case study in STAIN Teungku Dirundeng Meulaboh).

A study conducted by Abimanto and Mahendro, involved 100 UNIMAR AMNI students who used AI as a language learning method. The results showed that the use of artificial intelligence resulted in significant improvements in reading, writing, listening, and speaking.[7] This research is different from previous research, where there has never been research in the Acehnese location.

Researchers chose English language education students at STAIN teungku Dirundeng meulaboh to be participants in this study. The participants often use AI-based applications in learning taught in the courses taken. They use AI when doing assignments related to learn. So researchers are interested in knowing the perceptions of participants in using AI.

Related to the explanation above, the researcher will conduct a qualitative research to focus on students' perception of using AI under the title " Students' Perceptions of Using AI In English Language Learning: A Case Study In STAIN Teungku Dirundeng Meulaboh.

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[5] Wang, Y. International Journal of Cognitive Informatics and Natural Intelligence, 1(4), On the cognitive processes of human perception with emotions, motivations, and attitudes. (2007)

[6] Alizamar & Couto, N., Psikologi persepsi dan desain informasi, 2016

[7] Abimanto, Dhanan dan Iwan Mahendro, Jurnal Riset Sosial Humaniora dan Ilmu Pendidikan Vol.2, No.2

B. Limitations of The Study

The researcher solely focused on students perceptions of using Artificial Intelligence as an English learning media. The researcher was conducted specifically among English students at STAIN Teungku Dirundeng Meulaboh.

C. Research Problem

Based on the background study above, the researcher formulates some statement of the problem as follows:

1. How do the students' perceive the use of artificial intelligence (AI) technology for English language learning?

2. What advantages and obstacles do students experience when integrating artificial intelligence (AI) into the English language learning process?

D. Research Objective

Based on the research problems above, the objectives of research are:

1. To identify the students' perceptions of using artificial intelligence (AI) technology in English learning in STAIN Teungku Dirundeng Meulaboh.

2. To identify the advantages and obstacles that students experience when integrating artificial intelligence (AI) in the English learning process.

E. Research Significance

The result of this study hopefully can give and provide positive and benefit information as follows:

1. Theoretically

It is hoped that this research can provide new information about students' perceptions of use of artificial intelligent (AI) technology in Englis language learning in University.

2. Practically

a. For Students

Students can become more skilled in utilizing Artificial Intelligence (AI) for English language learning and also be prepared for any issues that might come up.

b. For Teacher

This research can provide new information about Artificial Intelligent (AI) for teachers and help them in using AI that is suitable for the students during teaching and learning process. In addition, they should be ready to address potential challenges that may arise.

c. For University

The researcher hopes that this research will be helpful to provide information about how the Artificial Intelligent was going on in reality and University could support the development of technology to improve AI in English language learning.

F. Explanation of Terms

1. English Education

   According to Siswandi, English as an international language is an oral and written communication tool in the global world. Communicating in English means understanding and expressing information, thoughts, emotions, and the development of science, technology, and culture.[8]

2. Perception

   Perception as stated by Barry, is the human ability to see, feel, and understand were not only contributes physically but also has the contribution in the humans psychological sense. The students' perception is very important for evaluating the effectiveness of teaching and learning.[9]

3. Artificial Intelligent (AI)

   According to Rich and Knight in Amrizal and Aini, artificial intelligence is a technology that allows computers to be designed to do things that humans usually do. Then when viewed from an educational point of view, artificial intelligence revealed in several studies is known to have a significant impact on student learning Groff.[10]

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[8] Siswandi, Suara Guru : Jurnal Ilmu Pendidikan Sosial, Sains, dan Humaniora Vol. 4 No. 2, Juni 2018

[9] Barry, A. M. Perception and Visual Communication Theory. Journal of Visual Literacy. Boston College, 22 (1), 91-106.

[10] JIIP-Jurnal Ilmiah Ilmu Pendidikan (2614-8854) Volume 3, Nomor 3, (687-692)

G. Previous Study

Several previous studies have shown positive results for students, perception of using AI in English language learning. In addition, Salmi, J, & Setiyanti, studies show that students like the use of ChatGPT as a learning tool in the Education 4.0 era. They generally find it easy and practical, and believe that it can improve their quality, creativity, knowledge and skills.[11]

According to Thi, This study was conducted to explore the perceptions of 100 VNU students regarding the application of AI-based learning tools in an English composition course. The findings showed that students were positive towards the role of AI-based applications in the writing learning process. AI tools have greatly helped students in the writing process due to their accessibility, adaptability, and great simplicity. Thanks to these apps, students can improve their writing skills, expand their grammar and vocabulary, and as a result, improve the quality of their writing and achieve their learning goals.[12]

Ka and Wenjie states A study of higher education students' perceptions of GenAI, such as ChatGPT, reveals a complex and nuanced picture of enthusiasm and concern. The results of this study highlight the potential benefits and risks associated with using GenAI in the teaching and learning process, which are perceived differently by students based on their experiences with GenAI technology. Overall, participants had a good understanding of the capabilities and limitations of GenAI technology and

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[11] Salmi, J, & Setiyanti, A. A. / Jurnal Ilmiah Wahana Pendidikan 9(19), 399-406

[12] Phan, T. N. le. (2023). Students' Perceptions of the AI Technology Application in English Writing Classes. Proceedings of the AsiaCALL International Conference, 4, . Hlm. 55 https://doi.org/10.54855/paic.2344

expressed positive opinions regarding the use of this technology in their studies, research and future careers.[13]

An experiment conducted by Lu and Wang, using an AI-powered English language learning platform showed that the use of AI in language learning can increase student motivation, engagement and satisfaction. The study found that students who used the platform showed higher levels of motivation and engagement and reported higher satisfaction with their learning experience compared to students who did not use the platform. This supports the claim that AI can provide the opportunity for a more personalized learning experience that is better suited to each student's needs and preferences.[14]

In a study related to student perceptions in the use of AI in learning, it was found that the use of AI had a positive impact on learning, according to Suciati, et al, research shows that students get significant help, especially in terms of learning pronunciation. They can find out the correct pronunciation and get an assessment and feedback on whether their pronunciation is correct. Some AI applications provide grades related to audio pronunciation results. They can also be an alternative partner. With AI, students who are off duty can utilize their time by practicing and collaborating with AI apps.[15]

However, other facts also show that the use of AI can have a negative impact, according to Isti'anatul and Syamsul, the study found that AI technology has several negative impacts, such as misuse of technology.In addition, dependence on technology also causes lazy attitudes and narrow mindsets in students.They prefer to

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[13] Chan, C. K. Y., & Hu, W. (2023). Students' voices on generative AI: perceptions, benefits, and challenges in higher education. International Journal of Educational Technology in Higher Education, 20(1). Hlm. 14
https://doi.org/10.1186/s41239-023-00411-8
[14] Ibid, hlm 682
[15] Prosiding Seminar Nasional Pascasarjana, Artificial Intelligence Application dalam Pembelajaran Speaking: Persepsi dan Solusi. UNNES 2023: 1111-1115, 2023

use artificial intelligence to answer questions rather than using their heads to expand their thinking. The use of artificial intelligence in social media can also increase patterns of illegal behavior such as cyberbullying.[16]

According to Mairisiska and Qadariah in the research, based on the results of the study and discussion in general it can be concluded that students gave a positive response to the use of ChatGPT in the learning process. Students gave positive responses to the ease of use of ChatGPT, increased knowledge, satisfaction with the speed and accuracy of answers provided by ChatGPT, increased time efficiency and effectiveness, and increased learning activities using ChatGPT.[17]

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[16] Jurnal Pengabdian Masyarakat dan Penerapan Ilmu Pengetahuan, Dampak Perkembangan Teknologi Terhadap Perilaku Dan Kehidupan Pemuda Pemudi Di Era Milenial, Volume 04, No. 02. 2023

[17] Mairisiska, T., & Qadariah, N. (n.d.). Volume 13 Nomor 2 Tahun 2023 Persepsi Mahasiswa FTIK IAIN Kerinci Terhadap Penggunaan CHATGPT Untuk Mendukung Pembelajaran di Era Digital. Hlm. 122
https://doi.org/10.23887/jurnal_tp.v13i2.2653