

THE IMPACT OF USING ARTIFICIAL INTELLIGENCE IN ENGLISH LEARNING AMONG ENGLISH LANGUAGE EDUCATION AND LITERATURE STUDENTS

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ABSTRACT

Lately education industry has been challenged by lots of digitalization and technology innovation. Artificial Intelligence is also become a prominent technology in education field that is being huge among the university students' in Bali. Artificial Intelligence are including application or website which serve many experienced in learning. This study aims to determine the impact of using artificial intelligence in English language learning among English language and literature education students in Bali. This research is a type of qualitative research that uses qualitative methods, namely structured interviews, literature studies, and documentation. Structured-interviews were conducted using a google meet, which was shared by Whatsapp group and private with 20 English education and/or literature students who were active in several universities in Bali. The results of this study are 1) there are six AI that students use for learning English and they have difference benefits, 2) there are positive impact of AI, 3) Besides of all the positive impact, students also feel there are negativity impact from using AI. AI has been a technological tools in English learning. AI is useful, but students as the one who operates takes a role for using AI. Students should be wiser to operates and even using AI as their learning media, so they will get the positive impact more than the negative impact.

Keywords: Artificial Intelligence, English Learning, English Education and Literature Department Students

1. INTRODUCTION

In this revolution era 4.0, the technology development has been significantly influenced all the humans' aspect, specifically to the education industry in Bali. Industry 4.0 existed and has been massively brought the revolution of education industry that integrate with technology. One of the technology products' that recently become a lot of discussion among the university students' and lecturer is Artificial Intelligence. Artificial Intelligence (AI) is currently considered to be one of the solutions in English learning and teaching activities. Artificial Intelligence (AI) is an innovation which is able to "think" like humans but is not naturally run by humans but by robots. By using AI, students can learn languages and practice their speaking skills every day (Huang et al., 2022). Not only for enhancing speaking skill, AI can be an option for enhancing the other skills such as writing, listening and reading.

Unlike the primary and secondary students, undergraduate students education are more complex and detail. They are deeply learned their specialty in one focus, which match with their passion. This situation are also matching to English education and literature students. Based on Johnson (2023) English language and literature are the study of Anglophone writing from the Middle Ages to the present day is

included in English language and literature. It encompasses not only the literature of the British Isles but also that of America and other English-speaking countries. English education and literature students are deals with the study of English Language which has a complexity of learning material. They must familiar with linguistics features and also the English teaching methods.

In order to learn English deeper in instant way, currently the English Education and Literature in Bali, especially in Denpasar, are using AI as their assistant. Assistant who helped them to finish the lecture assignments. AI is useful and helpful for solving some language problem. On the other hand, AI are also make students' lost their natural critical think.

A previous qualitative study that focused on the impact of of AI on English langague learning by Aljohani (2021) stated that both the teacher and student are grasped the positive impact of using AI in English Language learning in Saudi Arabia. Another research from Akbarani (2023) found that students' perceptions, utilizing artificial intelligence in English language instruction is entertaining, and they all concur that it is necessary. Artificial intelligence can have both beneficial and harmful effects on teaching English, depending on how and when it is applied.

This research will investigate and discuss about the impact of using artificial intelligence in English language learning among English language and literature education students.

2. RESEARCH METODOLOGY

This research is a type of qualitative research that uses qualitative methods. Qualitative research is a type of research that produces descriptive data in the form of speech, written words, and behavior observable from people as well as emphasis on reasoning, meaning, description of a specific situation and a specific content, up to more examine everything pertaining to daily life (Moleong, 2017). The subject of this study is the English education and/or literature students. To collect the data, the researcher use observation, structured interviews, and literature studies.

3. RELATED RESEARCH/LITERATUR REVIEW

Literature Review

Artificial Intelligence (AI) has garnered significant interest in English language instruction in recent times, providing novel methods to augment the educational process. AI applications are now widely used in language education, opening up new possibilities for individualized and flexible instruction. Based on Wang and Hu (2020), "AI technology is currently used in English language teaching to support language learning, facilitate communication, and provide feedback to learners."

AI has supported English learning for students and provide a real time response towards students activity. Based on Li dan Liang (2019), "The AI-based platform increases the efficacy and efficiency of language learning by using machine learning algorithms to curate unique exercises and content for each learner."

The word "artificial intelligence" (AI) is derived from the English and refers to intelligence while artificial means artificial, this word emphasizes intelligence. When we define artificial intelligence, it refers to robots which can think, evaluate options, and make decisions much like people do (Sutojo, 2011).

The primary application areas of AI are:

- a. The expert system. The expertise of specialists is stored on computers.
- b. The processing of natural language. It is predicted that consumers will be able to converse with their computers in common English with this natural language processing.
- c. Recognition of Speech. It is anticipated that voice communication between humans and computers would be possible thanks to speech recognition.
- d. Sensor Systems and Robotics.
- e. Attempting to interpret pictures using computer vision
- f. Intelligent Computer-aided Instruction. Computers can be used as tutors who can train and teach.
- g. Game Playing.

Related Research

The preparation of this research involves authors who search in various previous works and research that are considered the same as the theme of the research conducted. There are keywords in this study, namely the impact of Artificial Intelligence (AI) in English learning.

The first research is Artificial Intelligence-Based Application Cake as the Alternative for Learning Speaking: Opportunities and Challenges which conducted by Suciati, et al. (2022) This research explains students' perspectives regarding the application of AI to their speaking skills. Most of 30.8% of students strongly agree, 38.5% agree and 30.8% think neutrally regarding the importance of AI in helping Learning Speaking. Not only the positive impact from AI but students also got some problems or challenges such as, lack of social interaction, dependence on technology, difficulty in adjusting to various situations, lack of appropriate feedback, lack of emotion in learning, and availability of material. To solve those challenges and problems, the researcher also got the alternatives that students expect in learning to speak by utilizing AI are the existence of material in AI with material in the Semester Learning Plan (RPS) or the existence of speaking books that contain material with the use of AI.

Another research from Haryanto et al. (2023) entitled "*Dampak Kecerdasan Buatan (AI) terhadap Pengajaran Bahasa Inggris di Perguruan tinggi: Tantangan dan Peluang*". Artificial intelligence (AI) has changed the pattern of English language teaching and learning in higher education. In addition, artificial intelligence (AI) creates opportunities and challenges for future English teachers and lecturers. Currently, the millennial generation is accustomed to using various types of artificial intelligence (AI) applications on a self-taught basis in various daily life activities, including studying English at college level. Therefore, English teachers and lecturers always increase their technological literacy (Digital literacy), especially artificial intelligence (AI), in order to meet students' needs and desires in learning English in the future.

Both of the research have similarities with this research such as, the topic of the research; Artificial Intelligence towards English learning. The difference is the methods of collecting data and the scope of the research. The researcher use these two research is for supporting issue which discussed on this research.

4. RESULTS AND DISCUSSION

The result of this study collected by a structured-interviews to English Education and Literature students in three difference universities. This results shows a various results of each interviews. The results is explained as follows:

1. Students' Valuable AI in supporting their English learning activities

Based on the results of structured-interviews that researcher has done to the students, there are six Artificial Intelligences that student often use as their media for learning; they are ChatGPT, Turnitin, Quillbot, Perplexity, DeepL and Yoodli.ai. This

- 1) ChatGPT
They use this AI as their instant assistant and being their sources of doing assignment. They utilize this chatbot for giving some references to finish their assignment, especially in writing a paragraph. Based on Smith (2023), ChatGPT is a substantial language model created by OpenAI. It can comprehend and produce text that is of human quality since it has been trained on a sizable collection of text and code. There are several uses for ChatGPT, such as:
 - Creating text, including emails, letters, code, poetry, scripts, and music,
 - Language translation
 - Providing thorough and educational answers to queries.
- 2) Turnitin
Students use Turnitin as simple as to check the value of plagiarism that they have reached. This AI is success to make them aware of the originality of a writing product. Turnitin reduced occurrences of plagiarism and increased their awareness of the significance of ethical considerations when using a source, which is consistent with some previous research (Graham-Matheson & Starr, 2013; Halgamuge, 2017; Balbay and Kilis, 2019).
- 3) Quillbot
Not only paraphrasing but quillbot can also become a grammarchecker. The students stated that using this bot can help them to rebuild a sentences into a new sentence with many word choices. Based on Asmara and Kastuhandanu (2024), Quillbot's ability make the user believed that to paraphrase sentences by changing the wording or giving the user synonyms would enhance the quality of their writing because it would allow them to use a more sophisticated vocabulary, avoid monotony, and produce writing that looks more academic.
- 4) Perplexity
This AI has similar features and benefit with ChatGPT. It help students to find the answer of particular questions. The main feature of Perplexity is their natural language processing-based search engine(Wiggers,2024).
- 5) DeepL
DeepL is an AI that is concerned on translating words into the target language. Students believe using this AI help them to easily translate the word/documents and make it more understandable. Based on DeepL, this AI is allowed you to pre-translate files automatically, enrich translation memories, and keep the user text's original formatting.
- 6) Yoodli.ai
Students use this AI to improve their speaking skill. This Ai also provides user a private coaching, private feedback, and tracking the user progress. This AI often used by the job interviews, sales calls and public engagement who want to improve their communication skill.

2. Positive Impact of Using AI in English Learning

From 30% of the students perception about Artificial Intelligence (AI) is strongly agree that use AI give good impact for increasing speaking skill (Suciati,2023). Most of pupils view AI positively. Each AI has distinctive features and purposes. Students who are learning English stated that AI helps them doing assignments and enhancing their English language skills. As seen in the data extraction results below:

Researcher : *What's the positive impact from AI that helps you for learning English?*

Student 1 : *Using AI has been changed my life in learning English. Especially for AI that I use; DeepL, it helps me to perceive grammar use and it will help me to decrease redundancy. Other AI also help me to increase my speaking skills; Yoodli.ai, for me who are introverts, it is very hard to talk English confidently in front of my friend, so I prefer to use this AI for becoming my personal trainer in English speaking. And it yes, I got a satisfying score on my speaking lecture.*

Student 2 : *That's really help me in writing essay. Using quiltbolt AI, make me instantly find out the synonym of the word that I want. It decreases my plagiarism, thus it make my essay isn't monotone.*

Student 8 : *AI? I did use several of them. I think it helps me a lot. I use ChatGPT for brainstorming and finding some of assignment issue, then I compare it with my opinion. So, ya it's literally helps me a lot, especially for my writing skills.*

Based on the results of the interview above, it can be seen that AI makes students more aware of their English skills. Every AI has different features so, students must have several AI to support them in learning English. AI is proven to be able to help students develop their productive skills for the better.

3. Negative Impact of Using AI in English Learning

Based on the interviews, there are several negative impact of using AI in learning.

First, there is a sense of dependency. AI make everything is instant and easier. This dependency arise because they feel more comfortable to use AI than use their naturally thoughts. AI put them in a society-gap. This can be seen on the results of interviews below:

Student 3 : *When I use my own thoughts, I feel it doesn't perfectly correct, so I use AI for giving me a validation. Sometimes, when I apply my knowledge or even my skill in real life, I think I still have a sufficient confidence and need a validation.*

Second, laziness. Using AI may give all the user instant answer in one click. With all these conveniences, it makes students lazy to read and look for more appropriate options. When using AI, they tend to directly copy-paste the answers

that are considered correct into a file. This lowers the critical thinking level of some students.

Student 5 : *it made me lazier, cause I can easily find all the answer that I want.*

Third, AI as the media for cheat. A lot of college students cheat with AI. Students are more likely to accept AI when its results are nearly identical to their own thinking. The following interview extraction findings demonstrate this:

Student 10 : *sometimes I use AI as the main of my answer, cheating.*

Based on those three point, it can be concluded that AI also have negative impact for learning.

5. CONCLUSION

Students often use six Artificial Intelligences to support their English learning activities, according to structured interviews conducted by a researcher. These AI tools include ChatGPT, Turnitin, Quillbot, Perplexity, DeepL, and Yoodli.ai. Artificial Intelligence (AI) has a positive impact on English learning, according to most students who view AI positively. AI has unique features and purposes that help students with assignments and enhance their language skills. Students require various AI to support their English learning. AI makes students more aware of their English skills and helps them develop productive skills. AI may useful, but students as the one who operates takes a role for using AI. Students should be wiser to operates and even using AI as their learning media, so they will get the positive impact more than the negative impact.

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