



## From Blackboard to Bot: The Evolution of English Language Teaching with Artificial Intelligence

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### Abstract

This study shows that the development of technology and the use of Artificial Intelligence (AI) specifically have a positive impact on students. Teachers also have a big challenge because teachers are motivators and must understand more about artificial Intelligence (AI). The researcher used a descriptive qualitative method to complete this research. Researchers collect data using observations, questionnaires and interviews. The questionnaire consisted of 10 questions. Artificial Intelligence (AI) is very useful for improving students' writing skills in journal writing, where students can search and correct writing errors in artificial intelligence (AI). In conclusion, although artificial intelligence (AI) technology continues to develop rapidly and brings significant changes in the world of education, the role of teachers in instilling character remains irreplaceable. The aim of this research is to find out students' perceptions of Artificial Intelligence (AI) and to determine the role of teachers in the era of Artificial Intelligence (AI). The contribution of this research is to enrich the literature on understanding the role of teachers in the context of learning using AI, developing an understanding of the transformation of the teacher's role from a traditional teacher to a facilitator for students to learn based on AI. The contribution of this research is to enrich the literature on understanding the role of teachers in the context of learning using AI, developing an understanding of the transformation of the teacher's role from a traditional teacher to a facilitator for students to learn based on AI.

**Keyword:** Artificial Intelligence (AI)

### Introduction

The term "chatbot" refers to a type of computer that consists of conversational software agents that are activated by natural language processing. The pace of development in Artificial Intelligence (AI) technology is currently so rapid that new and astonishing AI models or systems are constantly emerging the term "chatbot" refers to a type of computer that consists of conversational software

agents that are activated by natural language processing [1]. The AI technology is significantly impacting and transforming the entire process of teaching English, enabling educators to enhance teaching effectiveness, thoroughly define educational goals, and tailor learning materials based on individual differences [2]. While Tools and applications powered by artificial intelligence (AI) enhance educational measurement, such as testing, assessment, and evaluation [3]. Artificial intelligence (AI) is a fast-developing area of technology focused on creating smart machines capable of executing tasks usually needing human intelligence, like comprehending natural language, identifying patterns, and making decisions informed by data [3]. This paper examines the possibilities of artificial intelligence (AI) in higher education, focusing on its ability to either substitute or support human educators [4]. Along with the progression of technological messages, especially AI has brought significant changes in the realm of education, especially in English lessons. In the midst of the need for effective and interactive learning, media is needed to attract students' attention.

While traditional methods such as lectures in front of the class are considered less effective in forming an interactive class, so students tend to feel bored. The application of artificial intelligence (AI) like ChatGPT and other applications helps students to practice individually and freely according to their own learning style. This has a positive impact on students where students are increasingly accustomed to applying technology and learning with application-based learning. This topic is important for teachers and schools to deal with technological advances. If teachers and schools do not understand and cannot use technology well then, they will be left behind. It is therefore important to explore the transition from conventional approaches to the implementation of artificial intelligence (AI) in English lessons, in order to create more effective classes and keep up with technology. Specifically, the University of Tasmania has issued a statement regarding the application of artificial intelligence (AI) for educators and learners, emphasizing its capacity for enhancing education while also stressing the importance of using it responsibly to uphold academic integrity [5].

The evolving function of educators in AI-driven English language acquisition has not been researched as much as research that focuses on technology and students. The teacher's function in conventional English language instruction has been known to be that of delivering material as well as a facilitator, but the role of the teacher in artificial intelligence (AI) based English learning has not been known significantly. Theoretically, this research has the potential to develop theories about the function of educators within the context of technology integration, especially artificial intelligence (AI) in the English language learning process. It can enrich the literature on human-computer interaction in the context of education. Practically, the results of the study can provide good guidelines and assistance for English teachers on how to effectively manage artificial intelligence (AI) as a tool for teaching including usage strategies as well as benefits, and challenges, then the role of teachers in using artificial intelligence (AI) as a learning tool will be found significantly.

In other terms, artificial intelligence (AI) has the potential to transform teaching methods and the ways in which students learn. This is especially relevant in language education, particularly in EFL (English as a Foreign Language) settings [6]. In light of advancements in Artificial Intelligence Content Generation (AIGC), numerous products have been created by top technology firms around the globe [7]. Some of the studies above show that the use of artificial intelligence (AI) based learning tools has a positive impact on students in the writing classroom, but there are still few that discuss the role of the teacher when students use artificial intelligence (AI) as an effective tool to improve writing. The majority of research focuses only on technology and students, but the role of teachers is often ignored. There has not been much discussion on how teachers' role in adapting and collaborating with artificial intelligence (AI) in the English language teaching process.

R1. How students perceive the role of teachers when teaching using traditional methods and using artificial intelligence (AI) in classroom academic writing?

R2. Is there a role of teacher in development of AI?

Improving writing skills is crucial for students. Sadly, many English language learners find academic writing challenging. Mastery of academic writing in English is vital for college students to showcase their intellect. Students encounter difficulties in academic writing related to ideas, grammar, vocabulary selection, cohesion, and coherence, among other factors.

Artificial intelligence (AI) and natural language processing have brought forth innovative Internet-based writing tools. These AI-driven writing instruments can assist students in various ways, such as translating text, enhancing spelling, or rewriting and summarizing content [8]. The use of artificial intelligence (AI) technology has a beneficial impact on students' writing abilities, yet this topic has not been explored by researchers in Indonesia [9]. To enhance student engagement and learning results, educational institutions are progressively exploring the integration of AI-supported chatbots. This initiative is spearheaded by ChatGPT, a sophisticated chatbot capable of producing complex text and participating in significant dialogues with users ChatGPT [10].

These studies were conducted in experimental environments in which researchers designed experiments and used a certain artificial intelligence (AI) tool for teaching, rather than allowing teachers and students to use AILL tools autonomously in-and-out of class after initial familiarization [11]. Carrying out a technological transformation in medical education necessitates that students are prepared and cognizant of the significance of embracing modern technologies, including concepts of artificial intelligence (AI), to acquire the knowledge and skills essential for their future careers in medicine [12].

AI, as a theory in computer systems, is capable of executing tasks that typically require human intelligence. Aspects of human intelligence such as speech comprehension, language

recognition, decision-making, and visual perception can be processed by artificial intelligence [13]. ChatGPT or other artificial intelligence (AI) make it easier for students to learn how to write well and correctly and encourage students to always seek knowledge. Artificial Intelligence (AI) can be defined as an intelligent technological tool. Artificial Intelligence (AI) intelligence can act like human intelligence. Writing is a process to develop knowledge such as essays, journals and other scientific works. The writing process includes discovering, developing and revising the text. Typically, students are inclined to utilize a technology when they perceive it as simple to use and advantageous for their learning.

### **Research Methodology**

This research uses a descriptive qualitative approach to describe students' opinions on the role of teachers when teaching using traditional methods and using AI in academic writing in the classroom. The data sources used by researchers as research materials include books, journals, and websites related to the topics used by researchers.

After interviews, observations and questionnaires, the researcher summarizes and selects data relevant to the research focus, namely changes in teaching methods due to the incorporation of artificial intelligence (AI) technology. The data that has been collected will be formed into a descriptive narrative which will be discussed in the discussion and research results.

Participant : This research involves students of Nurul Jadid university English department 4th semester, Indonesia. We chose the location because the students have been using artificial intelligence (AI) based learning tools. In this case, most of the students are already quite proficient in using AI tools. The participants were selected through purposive sampling. The study included a total of 16 participants, including 4 males and 12 females. For the interview we have 3 students, students are working on scientific papers. The students worked individually. They have to find knowledge about writing well and correctly using artificial intelligence (AI).

Instrument: The instruments used by researchers include questionnaires, interviews and observations. In detail, the research data was obtained from a questionnaire conducted online on Google Form. The questionnaire consisted of 10 questions, 2 yes and no answers, 8 of which used the following answers: 3 strongly agree (SA), 2 agree (A), 1 disagree (DA).

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Data Analysis: The qualitative information was obtained from the interview to provide more detail on the statement found in the questionnaire. After interviews, observations and questionnaires, the questionnaire consisted of 10 questions, 2 yes and no answers, 8 of which used the following answers: 5 strongly agree (SA), 4 agree (A), 3 yes (Y) 2 disagree (DA), 1 no (No). the researcher summarizes and selects data relevant to the research focus, namely changes in teaching methods due to the integration of artificial intelligence (AI) technology. The data that has been collected will be formed into a descriptive narrative which will be discussed in the discussion and research results.

### Findings and Discussion,

Some aspects of students in the use of artificial intelligence (AI) include: Students find it easier to learn and search for knowledge, artificial intelligence (AI) can improve students' writing skills, students also prefer to use artificial intelligence (AI) rather than using traditional methods of reading books and teachers have an important role to assist and motivate students to use artificial intelligence (AI). Artificial intelligence can enhance student participation by offering interactive and captivating educational experiences (Harry, n.d.).

Key: SA: Strongly agree; A: Agree; Y: Yes; D: Disagree; & N: No

**Table 1:** The Result of the Use of AI on Students' Writing

Statements	RESPONSES				
	SA	A	Y	D	N
Have you ever used AI technology such as Chatgpt, gemini etc	0	0	14	0	0
Do you feel AI technology helps you understand English writing material	2	14	0	0	0
Does the use of AI make the English learning process more interesting	1	14	0	1	0
Can AI provide good and accurate feedback	1	14	0	1	0
I feel the teacher still has an important role despite the help of AI	0	0	16	0	0
I prefer to learn by using a combination of teachers and AI rather than using one of them	2	13	0	1	0
I am very keen on utilizing AI in the future to help with writing	0	13	0	3	0
I have improved my English skills because of the help of AI then traditional media	1	13	0	2	0
AI can replace the role of the teacher to explain the material but it is more effective to use AI and the teacher	1	13	0	2	0
The role of the teacher is still important to provide guidance and motions	0	0	16	0	0

We can see from table number one, there explains the opinion of students in using artificial intelligence (AI) as a substitute for traditional methods. in the table 87% of students are very enthusiastic about agreeing that artificial intelligence (AI) is more effective for learning and

improving students' writing skills. Participants stated that in learning to write they use Ai as a guideline, besides that Artificial Intelligence (AI) is also used to correct writing. besides that the teacher also acts as a guide and teaches students to use Artificial Intelligence (AI) as a learning companion. Therefore, the significance of artificial intelligence in education emerges as a crucial subject that requires careful understanding and thoughtful approach to maximize advantages for both students and society at large [14]. Artificial Intelligence in education involves utilizing technologies like machine learning and natural language processing to improve the learning experience [15].

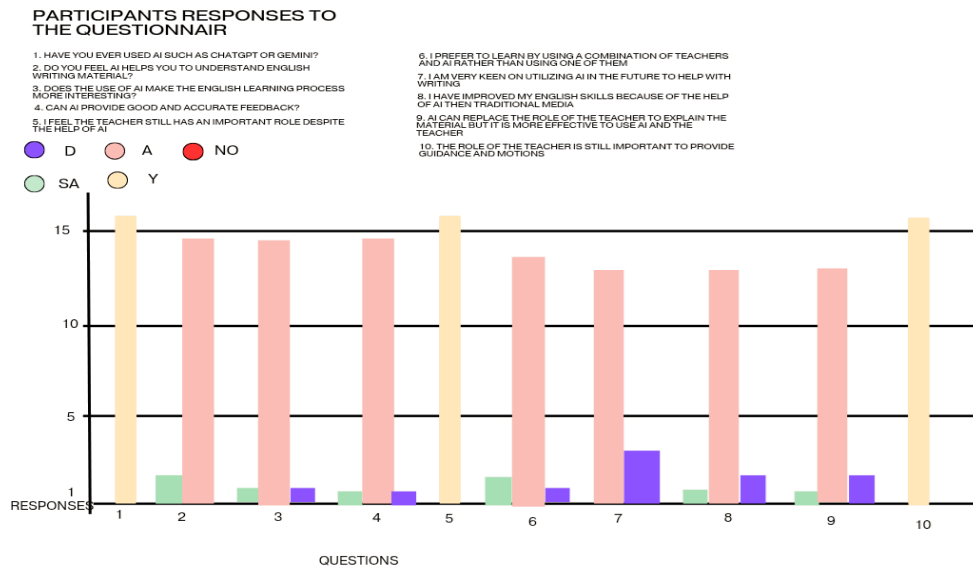
Interview results from students. Students still need the role of teachers in learning, but students need teachers who teach using Artificial Intelligence (AI) rather than traditional methods. Students often look for the knowledge needed in Artificial intelligence (AI) but also need the guidance of a teacher, because sometimes the results of artificial intelligence (AI) are less accurate (Participant 1). There are very broad benefits of artificial intelligence (AI), by searching for knowledge in artificial intelligence (AI) we can know a wider range of languages (Participant 1). For instance, chatbots and virtual helpers can enhance the learning experience by making it more enjoyable and interactive, while adaptive learning technologies can keep students interested by offering content that matches their comprehension level [15].

The use of artificial intelligence (AI) has a positive impact and provides effectiveness in improving language composition or improving writing (Participant 2). Students still need teachers to guide them, but lecturers only provide knowledge 10% of the lesson while AI covers a wider range (Participant 2). Artificial intelligence (AI) is very helpful because it makes it easier to find solutions to problems in writing (Participant 3). Students prefer to use artificial intelligence (AI) compared to reading books because artificial intelligence (AI) is stated to be very easy to understand (Participant 3). From the results of interviews and questionnaires above, artificial intelligence (AI) can facilitate students in learning.

The advancement of artificial intelligence (AI) also changes the role of teachers from traditional lecturers to facilitators and mentors who guide students to think critically and understand the material deeply. This change requires teachers to continuously develop technological competencies to be able to integrate artificial intelligence (AI) in the learning process. While artificial intelligence (AI) provides advantages in learning personalization and assessment effectiveness, there are risks that need to be anticipated, such as the potential loss of human touch and student data privacy issues. These challenges underscore the importance of collaboration between teachers and technology, where artificial intelligence (AI) serves as a tool that reinforces the role of the teacher rather than replacing it. Thus, while artificial intelligence (AI) offers great opportunities, the role of the teacher remains irreplaceable in maintaining a balance. The implementation of AI demands specific expertise and understanding, and many educational institutions might not possess the adequate resources to apply AI effectively [15].

Between technological advancement and student character building, this challenge underscores the significance of teamwork between teachers and technology, where artificial intelligence (AI) serves as a tool that strengthens the role of the teacher, rather than replacing it. Thus, while artificial intelligence (AI) offers great opportunities, the role of teachers remains irreplaceable in striking a harmony between technological progress and the development of students' character.

In the era of artificial intelligence (AI), teachers face various complex challenges, one of which is limited technological skills. Not all teachers have sufficient knowledge and expertise to optimally utilize advanced technology in the learning process. Many teachers still have to adapt to artificial intelligence (AI) based educational software or other digital teaching methods. This demands continuous training so that teachers can integrate technology without losing the essence of teaching. This limitation may hinder the transformation of the teacher's role from a traditional instructor to the facilitator and mentor expected in the digital era.



**Picture 1:** Graph of Students' Response

Key: SA: Strongly agree; A: Agree; Y: Yes; D: Disagree; & N: No

From the diagram above there are 10 questions. The first question 87.5% of students agreed to the question. 100% of students agreed with the second question. 93.75% of students agreed with the third and fourth questions. 100% of the students agreed to the fifth question. 93.75% of students approved the sixth question. 87.5% of students approved the seventh, eighth and ninth questions. 100% of students approved the tenth question. In the table above there have been significant results on the progress of artificial intelligence (AI) and the role of teachers. Artificial intelligence (AI) replaces the role of traditional methods but cannot replace a teacher or the role of a teacher. Artificial intelligence

(AI) can replace the teacher as a presenter but artificial intelligence (AI) cannot replace the teacher's role as a student character builder.

### **Discussion**

Based on the results of interviews, observations and questionnaires, the use of artificial intelligence (AI) such as chatgpt is very helpful for students in the process of learning English, especially writing. Students feel that artificial intelligence (AI) is easier to understand than having to read books in finding solutions. AI technologies could be advantageous for ambitious and gifted learners, it is essential to comprehend how a teacher influences student motivation in facilitating and enhancing learning experiences with AI technologies in the classroom [16]. Personalized learning powered by AI has the potential to enhance student involvement, motivation, and academic results, resulting in more effective and efficient educational systems [17].

Artificial intelligence (AI) cannot change the role of the teacher entirely, but artificial intelligence (AI) changes the role of the teacher from a traditional lecturer to a facilitator and mentor who guides students to use artificial intelligence (AI) properly to avoid misuse. Moreover, educators can leverage this technology to gain deeper insight into how their students are assimilating information. Instructors can utilize students' accumulated records to adjust their teaching strategies, potentially resulting in improved comprehension of the material by their students [18]. The capacity of AI to tailor and enhance educational experiences for students is evident [19]

Although artificial intelligence (AI) offers many opportunities, the role of teachers cannot be replaced. From the results of interviews and questionnaires, it appears can be that a majority of students concur that artificial intelligence (AI) can help but students prefer learning with a combination of using artificial intelligence (AI) as media and teachers as facilitators and motivators. Artificial intelligence (AI) has the capability to transform learning and teaching methods, making them more tailored, interactive, and effective [15]. Furthermore, schools and government bodies can establish policies and approaches that enhance AI's beneficial effects on education while addressing its potential drawbacks in this field [18].

### **Conclusion**

Furthermore, schools and government bodies can establish policies and approaches that enhance AI's beneficial effects on education while addressing its potential drawbacks in this field. Artificial intelligence (AI) is very useful for improving students' writing skills in journal writing, where students can search and correct writing errors in artificial intelligence (AI). In conclusion, although artificial intelligence (AI) technology continues to develop rapidly and brings significant changes in the world of education, the role of teachers in instilling character remains irreplaceable. Teachers are the main foundation in shaping the moral values, ethics and empathy at the core of character

education. Through their guidance and example, students do not only acquire knowledge. The presence of artificial intelligence (AI) in the classroom as a learning medium in writing skills classes are helpful, but there are also some constraints: AI cannot be used for longer and must be paid for and the available features are incomplete

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