The Use of Artificial Intelligence Technologies in Teaching Writing Skills

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Abstract

Technology is now used in education, especially when learning foreign languages. Students understand better when artificial intelligence is used. By rapidly supplying references, paraphrasing words, and now evaluating sentence structure, artificial intelligence can be convenient, especially throughout the writing process, and help students become more competent writers. This study employed a descriptive qualitative method. This strategy aims to present a complete and detailed account of multiple events. The data for this study was collected using purposive sampling. Participants in this study are English Language Study Program students from the academic year 2023/2024 who use artificial intelligence in students' writing. Data was gathered using interviews, observations, and documentation. The results of data analysis, the most popular artificial intelligence products among students include Quill Bot, Grammarly, Chat GPT, Deep L, Perplexity AI, and Essay Writer. Most students use artificial intelligence in the writing process, especially while brainstorming and drafting. A student believes that artificial intelligence is urgently needed in the process of locating references and building a sentence into a paragraph. Nonetheless, the research claims that they still employ AI in its natural stages, with students utilizing it in accordance with their requirements and skills.

Keywords: *Artificial Intelligence, Technology, Teaching, Writing Skill*

1. INTRODUCTION

The implementation of industry 5.0 requires many changes. Including in the function of human resources as it is well known that artificial intelligence has now the potential to change many aspects, because in this era the function of human resources is to the gap that exists between technology and human resources (Murugesan et al., 2023). Along with the development of cybernetic technology in recent years, it has changed human life a lot which of course is now considered a common thing. Because it is now present in almost every daily life. Very rapid development causes not infrequently many human resources are now starting to depend, for example, the use of Google Home and Siri for at home in helping human work in facilitating all their work. Not only in individual work, it has now also entered various aspects, namely health, economy, law, social and of course education. This is seen from its use which makes it easier for humans to interact socially with other humans from various continents.

Cultural differences in communication will certainly cause cross-cultural communication barriers. Indonesia is a diverse country in terms of ethnicity and culture (Shafa, 2022).The complicated process of cross-cultural communication and the existence of differences in several aspects in the form of language, culture, principles and customs certainly require appropriate comprehensiveness, so it is not uncommon that many things has now been present to bridge the gap that occurs due to differences in cultural background. This is certainly evidenced by the important role of sophistication in translating various languages according to one's needs, which in particular now has various features that can translate text, sound and images instantly. This tool is used almost all over the world, moreover there are provisions for several international languages, one of which is English.

The official language of English as an international language certainly stands at the center of the intercultural issues of the world. Because the English language is one of the most widely used languages. Therefore, this language is the most popular language in demand. The same is true in Indonesia, but it is different from neighboring countries such as the Philippines, Singapore and Malaysia which consider English to be a second language, in Indonesia implementing English as a foreign language. Making it difficult for English to be applied to everyday life, because it is found in only a few specific areas: foreign companies, foreign offices and educational institutions (Gunantar, 2016). While English only exists in certain Indonesians, governments have now made it compulsory to master the language for the future, so now applying the required subject of English to each school.

The education world left behind in its use of English. For Indonesia itself, the English language though it is in the context of a foreign language, is still a compulsory study at each stage of the embalming unit, with the purpose that students have the knowledge and skill that will surely be needed in an age of ever-increasing globalization. English language skills that focus on students, of course, also have an impact on teacher competence in teaching. Because as it is known, each learning process must refer to the two activities of learning and teaching. Learning activities certainly relate to the student while teaching relates to the teacher as the lead role.

Essential to the learning process is a source of learning, a process that teachers and students receive learning. Surely it is these three points that need attention because students will affect the results of each study (Kusuma, 2019). The role of teachers and disciples is the key when interaction inevitably shapes thinking ability, intellect and creativity that will impact experiences and practices that have been performed. The need for recognition that successful learning is not uncommon as a result of enjoyable learning. In fun learning, the teacher's attitude needs to adjust the conditions both as an educator and as a motivator. If that is applied then initially difficult learning planning will usually go as planned. This is relevant in the non-mother English learning process for some students, of course, assume that this study is difficult, but if both the interaction and the learning process are pleasant, it will usually be successful.

Teachers adapt the teaching methods and strategies to meet the needs of their students across different classrooms. Teacher modifies teaching approaches based on student development and linguistic competence consistency of this method. Teaching emphasizes communication, task-based learning, functional approaches, and real-life scenarios. These methods use strategies and techniques based on language skills (listening, speaking, reading, and writing). The teacher and students work together to plan teaching and learning activities than the objectives of process learning can giving motivation and taught to increase English skill (Hadijah, 2014). To enhance teaching and learning, teachers organize communication activities and supply source materials to students.

Due to the increase in the current era, the researcher will try to provide some theories that will support the fact that the use of artificial intelligence has a significant impact on the learning process plus there is now a term known as artificial intelligence in education (AI Ed), therefore, it is necessary to provide some theories that will support the research this time (Zhang & Aslan, 2021) . Based on Ke Zhang and Begum Ayse in their research about AI technologies for education, stated that now the use of AI Ed technology and applications, has proven to have the potential to bridge the gap between AI technology innovation and educational applications, so that the learning process can now expand on a large scale and be prolonged for a long time . Nur Tira Fitria explained technology based on AI in English Teaching and Learning is the opportunity to improve English language skills. The availability of many types of learning technologies makes it easier for students to comprehend English. Many ELT programs are based on AI technology and can be utilized by students (Nur Fitria, 2021) . From the two studies above, it is known that assistive intelligence technology can improve English language skills.

Related from Xin Zhao about AI as a Digital Writing Assistant for EFL Writers, AI-powered writing helper that assists users throughout the writing process by suggesting rewrite or paraphrasing possibilities for their original material. The application can help EFL writers generate or translate concepts into English, so improving the quality of their work. It can also help users stay motivated throughout the writing process and avoid getting stuck on tough words or sentences in English (Zhao, 2023). As maintained by Zanyar Nathir about the role of AI on English Language Learning the advancement of technology and platforms has made studying English easier. Artificial intelligence technology provides an opportunity to improve English linguistic skills. Because of the availability of many learning technology, students may be able to comprehend English more quickly. Students get

access to a wide range of ELT apps based on AI technology (Ghafar et al., 2023). From this, students can learn individually so that the motivation for learning increases.

English language learning has four language skills that represent and facilitate learning the language and are used for communication (Nan, 2018). People in the twenty-first century communicate with individuals who reside on different continents, countries, states, and areas. To effectively communicate with individuals all across the world, a link is required language that is universally understood. So English fulfills this purpose, and individuals strive to learn it in order to achieve their aims. That is why people study all of the English language skills because it is so important in daily lives.

To learn the English language, ELLs must master all four skills, namely LSRW (listening, speaking, reading, and writing). Each of these four skills is essential for foreign or second language learners, and students must know about all of. According to the diagram above, these four talents are classified as receptive or passive skills and productive or active skills. Listening and reading are receptive skills in which the learners just receive and understand the abilities and do not need to produce language to do so. Speaking and writing, on the other hand, are productive abilities that require students to produce words. This bold remark is based on the fact that people all across the world can't function without English. It is the primary language of science, medicine, financial transactions, and, most crucially, international communication. English has become a vital language for all non-English speakers to master, both in education and otherwise (Al-Sheikh, 2023) . According to Andriani writing is an English talent that requires the transition of ideas and thoughts into written form (Isnaeni et al., 2022). From the idea that has been presented that each ability that must be mastered by students has its own advantages and one of skill is that writing skills are very influential in learning English.

Writing is a valuable tool for students to practice and use their language skills. It is especially beneficial for first-time writers to strengthen their knowledge and thinking abilities. It can help students distinguish between writing for study and other purposes as needed (Rohim, 2019). Writing is an important influence during the process of learning English. Because the basic things that need to be known when starting to learn it are about the structure and process.

In the opinion of Scott that writing is an interesting activity, it can give students some advantages although basically there are difficulties in writing but it is still a useful, essential, integral and enjoyable part of the foreign language lesson (Yulianti et al., 2019). Because acknowledged by Khoiriyah that producing a written form was challenging since it required the use of linguistic elements (word spelling, sentence structure, punctuation, and so on) to transmit one's ideas, thoughts, opinions, and feelings in a way that the reader could understand (Isnaeni et al., 2022). Writing is one of the skills that must be mastered by someone who studies linguistics. Through writing, writers can express ideas, ideas and information into good sentences so that writers can express everything that is in our minds into a text or a written language (Muliati et al., 2021). Therefore, students have to knowledge about the elements to produce of good writing

Based on the definition about writing researcher conclude that Writing is an activity that requires the capacity to learn grammar, vocabulary, and the correctness in using the language. But according to Fegerson and Nickerson writing is a skill taught integrated but many students still have problems such as a lack of vocabularies, develop ideas, and lack

of grammar (Sholah, 2019). Although English has been studied for a long time, but because of its broad scope, it is necessary to always understand the writing part. That way the improvement in the learning process is more significant. Hence, in the learning process, one of the principal retention that needs writing skill, so students reaching of objective learning.

Based on Mora writing is a process by which transfer thinking, ideas and experience into written form (Nasir et al., 2021). Writing requires a process to create the desired writing based on its components. Writing is a method of communication that takes the form of writing. Handwriting allows students to express their ideas, opinions, and knowledge while learning. Because writing is considered a necessary talent. According to Zemach that writing process included (Bisriyah, 2022) the following stages:

The first stage in writing is selecting the topic. At this stage the thing that needs to be owned is the need for sufficient knowledge(Zemach, 2019). When have an idea, make sure it's relevant to the topic want to discuss. Because selecting a topic is a challenge for both writers and professionals (Adhikari, 2020). After that, start determining the theme by choosing a theme that is not general but not too narrow. This determination is quite important because this is the key to the content that will be created.

After having a topic, the next is to do brainstorming. brainstorming is a way of gathering ideas about a topic. According to Oshima at all that there are two kinds of outlines such as topic outline and the sentence outline, for topic outline consists of short phrases than the sentence outline is done in full sentences (Munoz-Luna, 2015). At this stage what is done is to think of various ideas that will be discussed in a text by collecting various ideas (Zemach, 2019). Other than that, outlining ideas which helped to use academic features consciously from a deeper understanding (Munoz-Luna, 2015).The ideas that are owned are poured in the form of a list. So that nothing is missed during this outlining process.

According to Zamel that composing is a process of discovering and exploring ideas and constructing a framework to best present (Torres et al., 2022). So after collecting all the ideas in the form of a list, the next is to sort out the ideas. At this stage, a determination is made regarding the suitability of the ideas and topics owned (Zemach, 2019). For topics that are not suitable, start crossing out and for topics that are suitable, start writing in the form of paragraphs. writing in the form of paragraphs is done according to the ideas owned let the writing flow following the mind.

All of the ideas that have been put into a writing are hardly ideal (Zemach, 2019). Therefore, it is necessary to revise. Low-Ethal acknowledges that revising is widely viewed as a vital and important aspect of writing (Fitzgerald, 1987). At this stage it usually needs to be done by an expert so that the author knows where mistakes are. Because revision entails making modifications at any stage of the writing process (Conijn et al., 2022). With the intention that the broad idea continues to match the issue. Then someone who is an expert is needed to determine this.

The review's comment and structure (Zemach, 2019). Revision refers to mending it might involve adding or removing content, including supporting details, and honing writing structure. Reviewing, evaluating, and editing are critical elements of writing (Marusic, 2023). Changed the order in which the thoughts were written, removed the least relevant information, and so on. The author worked to polish the final draft. At this almost

complete stage, it is necessary to revise and edit according to the direction of the expert. So that what want to convey in the writing is conveyed. It is included in the elevated stage because it determines whether the purpose of the writing is completed, thus allowing it to take a final step.

In the final stage before publication, the writing will be reassessed and determined for errors and correctness, which of course has a time limit according to the experts (Zemach, 2019). At this stage the writer is directed not only to focus on the content of the text but also on typos, semicolons, sentence structure. Because acknowledge by Picciotto that evaluation is the methodical process of determining merit, worth, value, or significance (Wanzer, 2021). By reading from the beginning slowly. This is done because this is the final stage before the writing reaches the reader.

2. THE USE OF ARTIFICIALLY INTELLIGENT TECHNOLOGIES IN TEACHING WRITING SKILLS

In this era of increasing technological development that has helped in all aspects of human life. The employment of AI allows for the acquisition of knowledge, problem solving, and the provision of solutions. One that is experiencing rapid development is artificial intelligence integrated in language education has experienced a surge in recent years because it provides innovations that can improve writing skills (Fontanilla et al., 2023). AI-assisted writing feedback can provide learners with immediate, accurate, tailored, and contextualized feedback, potentially improving their writing skills and performance (Shafiee Rad et al., 2023).The increase in intelligence assistance that generally only helps in education, now specifically facilitates the writing of foreign languages, both translating sentences or even now only need to type the title then the is easily obtained.

The development of the use of various applications in improving various abilities, especially for English students who improve skills in writing, certainly provides many changes in the learning process. Paper pal, Grammarly, Hemingway, and other writing tools use powerful algorithms to spot frequent problems in grammar, punctuation, and syntax (Stojanovic et al., 2023). As for the applications that students are usually used, namely, Copy AI, Good AI, Board AI, Perplexity AI, Chit Chop and Quill Bot. Next there is Deep L in addition to functions similar to google translate, but this application has various features that make it easier when writing to choose the selection of words that are in accordance with the content conveyed.

Next artificial intelligence is Chat GPT is a sort of generative AI that employs algorithms to generate fresh language comparable to what a human may write. It is a language model that employs deep learning to produce human-like responses to natural language questions. ChatGPT intended to be utilized in a conversational context, allowing users to engage with the model naturally and intuitively (Su (苏嘉红) & Yang (杨伟鹏), 2023). Other than that, almost the same thing namely Bard, this artificial intelligence explores interesting ideas or topics in a complex, simple and relevant manner based on the topic required. Besides that, there is artificial intelligence in the form of WhatsApp chat, by just typing one sentence, this Aruna AI will provide an overview of the topic needed. Because Aruna AI Powered by Open AI's GPT Technology, interacting with Aruna AI is like talking to an intelligent friend - natural and fun. AI Open is a freely accessible platform for

sharing actionable knowledge and forward-thinking perspectives on artificial intelligence theory and its applications (Tang, 2023). In addition to artificial intelligence in the form of chat, there is a publish or perish application that makes it easy for authors to find various journals in seconds with up to hundreds of entries. According to Amutuhaire that Publish or Perish it is concept can ignores the contextual issues that African researchers confront daily (Osunsan et al., 2022). The existence of this application makes it easier for writers to find the journals needed because of its easy use so that it provides motivation for writers in making a paper.

From the foregoing, it was concluded that increasing artificial intelligence in the scope of the learning process would require the best use. It also needs to be done with strategy for the purpose of the learning process to be accomplished. With the use of artificial intelligence in writing skill it makes both grammatical and grammatical ideas readily available. So, these students will follow the course of the age with its various other benefits, both of which will increase the motivation for learning that wants to keep trying new things. Because, in essence, a student's duty is to keep learning and trying new things for the sake of future continuity.

3. RESEARCH METHODOLOGY

The research method employed in this study was qualitative research, which was determined by the item to be researched and the aims to be met. According to Sugiyono, qualitative research methods are founded on the post-positivism or interpretive philosophy and are used to investigate natural object circumstances, with the researcher serving as the primary instrument (Sugiyono, 2019). This data gathering technique included triangulation (a combination of observation, interview, and documentation), and the results were qualitative. The data was analyzed inductively, and the research findings included potential and unique object difficulties, the meaning of an event, processes and social interactions, data truth, phenomenon formation, and hypotheses.

Its variables were identified, and the intercorrelation was detectable. The goal of qualitative research was to investigate and provide deeper insights into real-world situations. It was conducted on natural things, and researchers was instructed to discover meaning, find hypotheses, and generate phenomena. According to Johny Saldana, qualitative research encompasses a wide range of approaches and methods for studying natural social life. According to the statement above, qualitative research is a way to studying specific populations or groups. It is based on post positivism and interpretive philosophy. It is objective and centered on data collecting (observation, interviews, and documentation).

Case study, descriptive, and phonological are some of the methodologies used in qualitative research. The researcher employed descriptive qualitative methods in this study. In order to fully and thoroughly describe social reality and various phenomena that occur in the community that is the subject of the research, Sugiyono claims that descriptive qualitative is a method that aims to describe the characteristics, characters, traits, and models of the phenomenon under study (Sugiyono, 2019). Purposive sampling was also utilized to sample the data. Because sample collection depends on a number of factors depending on the data being analyzed. A researcher employed this method from established methods and techniques in the use of data that the researcher needed

because the researcher wants to describe "The Use Of Artificial Intelligence Technologies In Teaching Writing Skills".

4. RESULTS & DISCUSSIONS

Based on the aforementioned research, it is evident that the majority of students in the present day have utilized artificial intelligence in the writing process, starting from the selection of the topic and ending with the review process before the dedication. Good students benefit from this usage of artificial intelligence in many ways, including time savings and the ability to locate necessary references. The several impacts provided made it simple for pupils to write, which is consistent with the manner in which researchers investigated the application of artificial intelligence.

In order to formulate the problem research, this study sought to determine the type of artificial intelligence that students typically employ during the writing process. The researcher used interviews, observations and documentation with students of English language study program at UINSI Samarinda. The research data collected is described below.

a. The Kinds of Artificial Intelligence Technologies Students Use in Teaching Writing Skill

Mehrotra claims that artificial intelligence is a branch of computer science that studies the creation and study of intelligent devices and applications (Tür, 2022). Based on the results, the researcher concluded that using artificial intelligence that is produced from sophisticated technology helps pupils learn to write. This is especially true for kids studying a foreign language. The existence of a student's artificial intelligence is not solely dependent on the resources provided by the instructor; it may also be used to better fulfill the needs of the student and advance their growth.

For example, in the modern period, when students require more references, they should employ a variety of technologies rather than just one to help them reach their goals. According to related findings by Ke Zhang and Begum Ayse, artificial intelligence for education has shown promise in bridging the gap between educational applications and technological innovation, allowing for the long-term, large-scale expansion of the learning process (Zhang & Aslan, 2021). As a result, the researcher can draw the conclusion that using artificial intelligence in the classroom has several advantages for students. For example, students can improve their writing skills and gain a better grasp of the course topics.

The study concluded from the results that students employ a variety of artificial intelligence techniques when writing. Depending on the demands of the students, both Chat GPT, Quill Boot, Grammarly, Deep L, Perplexity, and others are utilized. Students can still use artificial intelligence according to their skills, but essentially, they use it to make it easier to access different references. By enhancing students' skills and avoiding reliance on artificial intelligence, this will undoubtedly benefit students by serving as a tool rather than a writing role.

The main objective of artificial intelligence is to create machines that can carry out operations that typically call for human intelligence and use data as a source of knowledge to identify trends and make judgments. As a result, students are using artificial intelligence in the process of learning English, particularly when it comes to writing. particularly in the

modern period, when technological advancements follow human advancements. Therefore, the use of artificial intelligence in the classroom will undoubtedly help students learn by making it easier for them to locate references and write well.

b. Students Use Artificial Intelligence in Process of Writing

Choosing a topic, brainstorming, drafting, revising, reviewing, editing, and evaluation before publication are all steps in the writing process. Based on the researcher's findings, pupils need artificial intelligence's help discovering materials and precise references during the writing process because they have varying talents.

Although the writing process aids in students' idea generation, it has been suggested that students encounter difficulties at every stage of the process. Artificial intelligence is needed in the writing process, which also helps pupils develop their skills, in order to produce the intended written content. Naturally, students will save time in locating the necessary references when AI is used in writing processes like title selection and brainstorming.

Writing is the process of transferring thoughts, ideas, and experiences into written form, as is well known. In addition to the formal writing process, students occasionally struggle to come up with words that express their ideas. This is done by using artificial intelligence, which saves time and allows for a wide variety of wording that reflects the student's intent.

The researcher discovered, however, that a lot of students continue to employ artificial intelligence to facilitate their writing. The student believes that artificial intelligence is widely available, but its true purpose is still to provide the necessary information. As a result, students can modify their demands and skills. It is usual for students to just Search references that are pertinent to the information they require, while those who rarely use the bauble intelligence feel they can handle it on their own because writing is not a tough chore.

The teaching of English through technology is unavoidable in the modern educational landscape. With the increasing integration of digital tools in language learning, platforms such as social media have become effective avenues for enhancing English writing skills among students (Dewi et al., 2022). Internet-based learning is transforming traditional classroom dynamics, as seen in its adoption by English teachers in Indonesian Madrasah Aliyah to facilitate engaging and flexible learning experiences (Fauzan, 2021). Moreover, advancements in artificial intelligence (AI) offer significant potential for language acquisition, as evidenced by comparative studies highlighting its benefits for undergraduate students in Indonesia and Morocco (Khoudri et al., 2024). These innovations address critical challenges in language learning, such as writing difficulties faced by students during thesis preparation (Fauzan et al., 2022), by providing accessible and personalized learning resources. Consequently, the integration of technology in teaching English not only enhances learner engagement but also aligns with global educational trends, making it an indispensable part of modern pedagogy.

In addition to utilizing technology, English teachers must incorporate diverse teaching methods, techniques, and classroom discourse to enhance student engagement and learning outcomes. Debate and peer assessment, for instance, have proven effective in improving EFL students' speaking abilities by fostering critical thinking and active

participation (Fauzan, 2016). Furthermore, integrating discourse-based teaching approaches, as practiced in Indonesian Islamic universities, provides students with authentic language use and contextually meaningful interactions (Fauzan & Saparuddin, 2023; Saadillah & Fauzan, 2024). The application of systemic functional linguistics in teaching enables students to critically analyze texts critically, thus broadening their linguistic and critical thinking skills (Fauzan, 2022). Additionally, techniques that focus on ideological and rhetorical analysis can deepen learners' understanding of language use in real-world contexts, such as news media (Fauzan, 2018). Therefore, by combining various pedagogical strategies with classroom discourse, teachers can create dynamic and effective learning environments that go beyond the limitations of any single teaching approach.

5. CONCLUSION

Based on the results of the study, the researchers concluded that Chat GPT, Quill Bot, Grammarly, and Deep L are the most popular artificial intelligence tools for teaching writing skills to students enrolled in English language study programs. This artificial intelligence has commonalities even though it has differences. This is consistent with the researcher's findings from the respondents, which show that the variety of artificial intelligence is still utilized according to the demands and skills of the pupils. in order to improve the students' writing skills. The six phases of the writing process are topic selection, brainstorming, drafting, disasters, editing, and evaluations following publication. Students have the option to utilize artificial intelligence in a variety of ways. For example, during brainstorming sessions, some students use Perplexity and Chat GPT, while others do not, as they are able to make their own decisions. Researchers also discovered that, during the entire writing process, students most frequently use artificial intelligence at the drafting stage. At this point, students are utilizing chat GPT, Bing, Copy AI, and Deep L. Conclusion Despite the fact that there are differences in how artificial intelligence is used, each student will employ it in accordance with their degree of writing proficiency.

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