

CHAPTER I

INTRODUCTION

In this chapter, the researcher explains the background of the study, the research question, the purpose of the study, the significance of the study, the scope and limitations, and the definitions of key terms.

A. Background of Study

Writing among students was something that had to be mastered by students. Students were required to present the results of what they had learned in the form of writing, either in the form of written works in the form of papers, essays, or final assignments in the form of theses. Technology had developed rapidly, both in terms of information, health, and even in the field of education. In this modern era, artificial intelligence had been discovered that made it easier for humans to do various things they needed, including helping students write. In this era, artificial intelligence emerged in the form of a chatbox called ChatGPT which was widely used by students to help them with their assignments. On the other hand, the use of ChatGPT also had its own challenges for students' writing skills.

Writing skills are the skill of expressing ideas, notions, and feelings in the form of written language so that other people who read can understand the contents of the writing well. writing has two steps. the process of displaying the meaning of ideas and conveying them in the form of written language. (Wigati, 2014). (Brown, 2001) states that there are writing, content, form, vocabulary, grammar, and mechanics.

Artificial Intelligence (AI), as part of technological advances, makes it easy for the world of education and learning. These generations are known as digital or digital natives who understand computers and the internet better than previous generations. (Mehrnaz Fahimirad, 2018) states that educational technology changes the learning system in the world of education. This happened because of Artificial Intelligence as part of the Industrial Revolution 4.0 era. Thus it becomes necessary for the world of education to participate in making changes in its learning system to increase the competitiveness of graduates in competing to equip them with the ability to think critically, creatively, and collaboratively.

AI/artificial intelligence called OpenAI in the United States released a chatbot application called ChatGPT (openai.com, 2022). This machine was a natural language processing (NLP) technology that was capable of responding to human questions in the form of text (known as prompts) that were typed into the application. What amazed many people was that the answers given by ChatGPT looked well structured, the relationships between words or sentences were coherent, the accuracy was quite good, and it could remember previous conversations. In fact, by using the right prompt technique, a scientific article or even a book could be produced in a much shorter time than conventional methods. In terms of writing capabilities, ChatGPT could be used for various functions, including helping writers in the brainstorming and planning process, producing creative text formats, and assisting researchers in the editing process.

Previous studies related to the issues of using AI and technology in writing classrooms prove usefulness for students. (Xue Wen, 2022) mentioned that technology allows students to increase their ideas in English writing performance. Previous studies entitled A Program Based on Chat Generative Pre-trained Text Transformer (ChatGPT) for Enhancing EFL Majors' Descriptive Paragraph Writing Skills and Their English Grammar Use. The similarity between this research and previous research is that it uses ChatGPT and writing ability as variables.

This research study differed from previous research in several ways. The differences between this research and previous research included the research methods, number of participants, and location used.

Based on the explanation above, a research entitled The Role of ChatGPT in Students' Writing Skills at IAIN Kediri was used to determine the role of ChatGPT in the writing skills of 5th semester students at IAIN Kediri, as well as identify what challenges 5th semester students of IAIN Kediri faced when using ChatGPT.

B. Statement of The Problem /Research Question

Based on the above background, the researcher formulation the problem of research as follows:

1. What is the role of ChatGPT in influencing students' writing skills at IAIN Kediri?
2. What are the challenges in using ChatGPT for students' writing skills at IAIN Kediri?

C. Purpose of The Study

From the research question of this study, the writer has objects of study.

1. To explore the role of ChatGPT in influencing students' writing skills at IAIN Kediri.
2. To identify the challenges in using ChatGPT for students' writing skills at IAIN Kediri.

D. Significance of The Study

1. For students

This study provides several important contributions to determine the use of AI by using ChatGPT in influencing writing skills and its influence on students' writing development. This study contributes to students to make it easier to recognize and understand the role of ChatGPT in improving writing skills.

2. For teachers

This study provides some important contributions to understanding the use of AI using ChatGPT in influencing writing skills and the challenges of its use in developing students' writing skills. This study contributes to teachers being more aware of the challenges posed by ChatGPT when their students use ChatGPT to develop writing skills.

3. For further researches

This study provides several important contributions to determine the use of AI by using ChatGPT in influencing writing skills and the challenges of its use in developing students' writing. This study provides contributions to researchers, this study is expected to be a basis for

further research, and can be developed in terms of the number of subjects.

E. Scope and Limitation

The research location be carried out on the IAIN Kediri, with the research respondents being IAIN Kediri 5th semester students with a audience of 15 students. The ability that be tested is the writing skills of IAIN Kediri students. The weakness of this research is that there are still students who do not know about Artificial Intelligence or ChatGPT.

F. Definition of Key Terms

1. Academic Writing

Academic writing was a formal and systematic form of written communication, generally used in academic settings such as universities. The main purpose of academic writing was to convey information, arguments, or research results clearly, logically, and objectively to readers with a certain background knowledge.

2. Writing Skills

Writing skills were the ability to convey ideas, thoughts, or information effectively through writing. This involved the use of appropriate language, good sentence structure, and clear organization of writing.

3. ChatGPT

ChatGPT could help writers in various stages, from brainstorming ideas, structuring their writing, to perfecting their style. However, it was

important to remember that ChatGPT was only a tool. Human creativity and critical thinking remained the key to producing quality and original writing.

4. Artificial Intelligence (AI)

Artificial Intelligence (AI) is a technology specifically designed to empower computer systems with the capability to replicate and simulate human intellectual abilities. The overarching goal of AI is to enable machines to perform tasks that typically require human intelligence, such as learning, problem-solving, language understanding, and decision-making.