

# CHAPTER I

## INTRODUCTION

This chapter discusses the background of the study, research problem, research purpose, scope and limitations, the significance of research, and definitions of key terms.

### 1.1 Research Background

It can be challenging and time consuming to learn a foreign language such as writing skills, it takes a lot of time and energy. However, the process of learning a foreign language has grown more effective and accessible with the development of new technology and software applications. This research will examine how learning a foreign language might be aided by utilizing ChatGPT, an extensive language model created by OpenAI.

A chatbot or ChatGPT is a computer software that can converse with a person in a human-like manner using a language like English (Kim, 2019). Chatbots, also known as conversational agents, provide a human-like interface with a natural language user interface. ChatGPT is a form of InstructGPT called OpenAI that has been trained to swiftly follow instructions and give thorough replies. Interestingly, OpenAI's ChatGPT is built to remember previously asked questions and can adjust itself based on response (Tira, 2021). There has been several prior research on chatbots. Cloud-based Chatbot services are presently widely available.

According to Athanassopoulos et al, (2023), the potential of ChatGPT for language learning is significant, as it can offer learners individualized language instruction and create authentic language materials while simultaneously drawing attention to ethical concerns regarding the replacement of human language teachers with machine learning systems and the use of these systems to generate text.

Students have discovered that ChatGPT is a very useful tool for learning English. Some educators oppose this method, yet some of their students are adamant about utilizing this chatbot (Leleka, 2023). That way, students expect to still be supported to use ChatGPT as a medium to help them understand or work on material given by their lecturers. Of course, students must use ChatGPT appropriately, without abusing the advantages of ChatGPT. According to Koraisi (2023), the solution to lessening the workload associated with material design and assisting instructors with other responsibilities more easily and effectively may lie in the appropriate integration of such technology into EFL teaching and learning. Teachers

everywhere must stay up to date with the increasing prevalence of technology integration in language instruction.

The researcher used Artificial Intelligence (ChatGPT) as a research title based on the use of artificial intelligence in teaching and learning activities on campus. There are several websites and each of their functions is used, such as composing words, titles, finding ideas, and so on. Moreover, many students have begun to understand how to use artificial intelligence without knowing what impacts can be obtained when addicted to using it.

## **1.2 Research Questions**

Based on the explanation above, this research highlights the research questions that are elaborated below:

1. What are the strengths of Artificial Intelligence (ChatGPT) as the learning media for writing comprehension?
2. What are the weaknesses of Artificial Intelligence (ChatGPT) as the learning media for writing comprehension?

## **1.3 Research Purpose**

Based on the research questions, the purpose of the research is to identify the use of Artificial Intelligence (ChatGPT) as the learning media to improve EFL writing comprehension: strengths and weaknesses of the University of Muhammadiyah Malang students.

## **1.4 Research Significance**

This research provides information about the strengths and weaknesses of using Artificial Intelligence (ChatGPT) as the learning media to improve EFL writing comprehension. Hopefully, students and teachers will understand the procedures and use of artificial intelligence properly, correctly, and precisely according to its functions and uses by reading this thesis. Moreover, the author hopes this thesis can help future researchers on the same topic. This study is expected to provide knowledge to readers, especially students, about the use of artificial intelligence to find ideas in teaching and learning activities that are good, correct, and appropriate according to their functions and uses.

## 1.5 Scope and Limitation of Study

The scope of this research is to determine ChatGPT's strengths and weaknesses as the learning media for EFL in writing comprehension. The limitation of the research is the participants which include English Language Education Department (ELED) University of Muhammadiyah Malang students who have used Artificial Intelligence (ChatGPT).

## 1.6 Definition of Key Terms

Some Definitions are provided to help clarify the key terms used in this study

1. Artificial intelligence (AI) is a rapidly growing technological phenomenon that all industries wish to exploit to benefit from efficiency gains and cost reductions. At the macro level, AI appears to be capable of replacing humans by undertaking intelligent tasks that were once limited to the human mind (Hassani et al., 2020).
2. One of the most recent AI models created by Artificial Intelligence is ChatGPT. It's a variation on the GPT (Generative Pre-trained Transformer) architecture, a neural network trained on a sizable dataset to produce natural language text appropriate for conversational scenarios, including reacting to user input in a chatbot or virtual assistant application (Ventayen, 2023).
3. Writing ability is a natural way for students to reflect on their speaking, listening, and reading experiences, unlike other trilingual writing skills that allow students to acquire the linguistic components of the meaning of the above theories.. (Intan, 2016)
4. Strength, like tenacity and fortitude, may also be viewed as positive traits. Strengths are, at their core, advantageous personal qualities or aptitudes. Understanding one's values and concentrating on one's strengths can improve performance and overall well being. This is known as developing strengths (Gander et al., 2022).
5. Weaknesses are known as negative traits or encompass a lack of strength.