

CHAPTER I

INTRODUCTION

1.1 Research Background

In recent years, rapid technological advancements, particularly in Artificial Intelligence, have led to its integration into various aspects of daily life. Artificial Intelligence, commonly abbreviated as AI, represents a multifaceted and rapidly evolving field that encompasses the development of computer systems capable of performing tasks that typically require human Intelligence. These tasks include, but are not limited to, problem-solving, decision-making, language understanding, and perception. At its core, AI seeks to create algorithms and models that enable machines to process vast amounts of data, recognize patterns, and make predictions or decisions based on this data.

According to Kusumadewi (2003), Artificial Intelligence is a component of computer science that empowers machines (computers) to perform tasks with the same proficiency as humans. Rahardiantino et al. (2022) clarified that the primary goal of artificial Intelligence is to create a system that behaves like the human brain and can be controlled by a computer system operated by a human. Artificial Intelligence involves using computer programming to make machines perform tasks that are considered intelligent from a human perspective. It is the study of enabling computers to outperform humans in various tasks. Its applications are extensive, including the realm of education (Jayanthi and Devi, 2022).

Artificial intelligence in education is one of the characteristics of the Industrial Revolution 4.0 era, characterized by automation and data exchange where people search, quote, analyze data and information, and access cloud services via the internet. Meanwhile, Society 5.0 being defined as a human-centered society where technological and economic

advances are used to solve problems using a system that integrates virtual and physical space (Prastiwi & Pujiawati, 2019). Artificial Intelligence is having a substantial influence on education, changing the way students learn and teachers teach. With the help of AI technology, schools and colleges can tailor the learning experience to each student's unique needs, which improves their overall performance. AI is particularly beneficial because it can adjust to how each student learns, their pace, and what they're good at or need help with. It means that lessons can be customized to suit each student, making learning more engaging and eliminating the one-size-fits-all approach in education. In the context of translation learning, students can now harness the power of AI translation tools to enhance their language acquisition and translation capabilities.

According to Adi Alam (2020), translation, as one of the applications of applied linguistics, can become a bridge in transferring messages from one language to another. AI has proven itself particularly valuable in the realm of language translation. As AI-driven translation tools continue to advance, they're making their mark in the field of education, too. When it comes to learning how to translate languages, students are now considering using AI-powered translation tools to boost their language learning journey.

Consider the example of the translation classroom of the 5th semester on Introduction to Language Services subject in English Education at Jambi University, where language learners focus on honing their skills and techniques necessary to accurately convey the meaning of text or speech from one language to another, within the scope of translation collaborated with current artificial intelligence technologies. Students are concentrating on refining their abilities to interpret and convey subtle messages through translation while working alongside contemporary artificial intelligence technologies. It

has evolved into a platform for investigating the interplay between human intelligence and the developing capabilities of AI.

Based on the above background, this research looked at what students who have taken a Language Services course in their 5th semester at Jambi University perceive about using AI for translation in their learning process. By investigating various complex student viewpoints, this study seeks to uncover students' perceptions of using AI-based translation tools according to the essential translation elements. As AI becomes more prominent, it becomes crucial for educators and researchers to understand how students perceive and feel its impact on their educational experience.

1.2 Research Question

Based on the background, the researcher formulated the problem: "What are students' perceptions regarding using AI-powered translator tools in their translation learning experience?"

1.3 Research Purpose

The research aimed to investigate students' perception of the utilization of AI-based translator tools in the context of translation learning.

1.4 Research Limitation

The limitation of this research is its focus on students' perceptions as a translation learner of using Artificial Intelligence as a translation tool when learning translation. The researcher limited the analysis to students who have taken the Introduction to Language

Services subjects in their 5th semester in the English Education Study Program at Jambi University and selected participants according to the characteristics that this research needs. The perceptions sought are based on essential translation aspects: accuracy and revising editing. This research also limited the scope of students who have used AI-based translator tools to translate various sentences to texts that focus from Indonesian to English.

1.5 Research Significant

The significance of this research lies in its potential to provide valuable insights into the evolving landscape of language education and technology integration. Understanding how students interact with AI-powered in translation learning can create more effective and engaging educational experiences. This research also holds significant value for several stakeholders in the field of translation education and technology:

1. For Educators

The findings offer insights into how AI-powered translation tools can be effectively integrated into translation curricula, helping educators develop teaching strategies that leverage these technologies.

2. For Students

This research understanding students' perceptions provides a basis for enhancing their practical skills in using AI translation tools, ultimately improving their translation accuracy and efficiency. By highlighting the importance of staying updated with AI advancements, the research encourages students to continuously adapt, ensuring they remain competitive in the translation industry.

3. For The Translation Field

The findings can inform developers of AI translation tools about user needs and preferences, guiding improvements and innovations that better serve the translation community.

1.6 Definition of Key Terms

To expound the key terms employed in this study, certain definitions are presented:

1. Perception

Woods et al. (2009) stated that perception is formally defined as actively receiving information by carefully choosing, structuring, and comprehending individuals, occurrences, items, actions, and circumstances. The process of perception is connected to assigning significance and interpreting the objects under observation.

2. Artificial Intelligence

According to Ziyad (2019), Artificial Intelligence (AI) constitutes a field within computer science dedicated to creating computer programs capable of performing tasks that typically necessitate human intelligence. AI algorithms are designed to address tasks such as learning, perception, problem-solving, language comprehension, and logical reasoning.

3. Translation

According to Machali (2009), translation is an attempt to replace the source language text with an appropriate text in the target language, focusing on conveying the author's intended meaning. Hanifah (2016) also stated that translation is not a simple

process but a complex process, as in the process of translating texts, translators must go through various stages, and in each location, there are often complicated problems that must be faced and solved.