

## CHAPTER II

### REVIEW OF RELATED LITERATURE

This chapter provides some basic studies of this study, those are: Perception, ChatGPT, Learning English, and ChatGPT in EFL learning.

#### 2.1 Perception

Perception is the process through which we interpret sensory information, such as sight, sound, and touch (Mather, 2016). This process is shaped not only by our sensory inputs but also by our previous experiences, knowledge, emotions, and expectations. For instance, two individuals may observe the same painting yet interpret it differently due to their distinct backgrounds. Perception is crucial in shaping our interactions with the world and influencing our decision-making, encompassing stages that range from the initial recognition of stimuli to intricate interpretations involving memory and emotion.

Perception also shapes subjective realities, as individuals may experience the same situation differently (Siegel, 2016). For instance, some may find the sound of rain calming, while others may find it disruptive. It plays a key role in social interactions and education, affecting how we perceive others and how students engage with learning methods. A positive perception can enhance motivation, while a negative one can hinder engagement. Overall, perception is a dynamic process that shapes our understanding of and response to the world around us.

##### 2.1.2 Factors Affecting Perception

According to Epley & Waytz (2010), An individual's perception of an object frequently differs as a result of both internal and external influences. Internally, aspects such as past experiences, emotions, needs, personality, knowledge, and cultural background significantly affect how one interprets various stimuli. Externally, features like an object's size, position, movement, color, and distinctiveness affect perception. For instance, moving objects tend to draw more attention than still ones.

Muchlas (2008) and Siagian (2012) Categorized the factors influencing perception into three distinct groups, namely:

1. Individual's factor

Perception is shaped not only by external stimuli but also by an individual's personal factors. A person's past experiences, personality, interests, and attitudes all contribute to how they interpret an object, leading to varied perceptions across different individuals.

## 2. Object of perception

Everything in a person's surroundings can be an object of perception. Walgito (2002) categorizes perception into two types: person perception, also called social perception, and thing perception, also known as non-social perception. An object can be perceived differently depending on factors such as size, movement, background, sound, and other attributes. The more distinct a stimulus, the more attention it draws. For example, a loud noise in a quiet night, a thin person among a group of larger individuals, or a blue object against a white background are likely to stand out.

## 3. Situation or environment

A situation refers to the context in which an object or event is observed, encompassing factors such as time, location, social conditions, and the environment. These situational elements can significantly influence a person's perception.

### 2.1.3 Types of perception

According to Bimo Walgito in Nisa et al., (2023), perception can be classified into two categories: positive perception and negative perception.

1. Positive perception : refers to a favorable or optimistic view of something. This perception involves recognizing the benefits, advantages, or positive aspects of a situation, object, or experience. Individuals with a positive perception tend to focus on constructive or beneficial elements.
2. Negative perception :on the other hand, refers to a critical or pessimistic view. It highlights the shortcomings, disadvantages, or unfavorable aspects of something. Those with a negative perception tend to emphasize problems, challenges, or undesirable traits.

## 2.2 ChatGPT

ChatGPT is a sophisticated language model created by OpenAI, based on the GPT (Generative Pre-trained Transformer) architecture, specifically GPT-3.5. The model has been extensively trained on a substantial corpus of text data obtained from the internet and other credible sources(Lund, 2023). Its primary purpose is to engage in conversation with users and

provide them with informative and contextually appropriate responses. With its multilingual capabilities, ChatGPT can comprehend and produce text in various languages, rendering it a versatile tool for an extensive array of tasks. It excels at answering questions, offering explanations, providing suggestions, and engaging in interactive discussions (Kalla et al., 2023). However, it is crucial to exercise critical thinking when evaluating its responses, as occasional inaccuracies or nonsensical answers may arise. When necessary, it is advisable to cross-verify information from trustworthy sources.

### **2.2.1 History of ChatGPT**

The latest iteration of a natural-language system called ChatGPT was made available on November 30, 2022 (Haleem et al., 2022). OpenAI, a non-profit research organization focused on advancing artificial intelligence (A.I.), introduced this platform. OpenAI was established in 2015 by Sam Altman and Elon Musk, both being techpreneurs, along with additional investors (Liu, 2024). The company's headquarters are located in San Francisco, California, and it was launched with an initial funding of \$1 billion.

### **2.2.2 The Strengths and Weaknesses**

According to (Juan et al., 2023) ChatGPT like any technology it has strengths and weaknesses :

#### **● Strengths of ChatGPT**

##### **a. Generating Plausible Responses:**

ChatGPT is an advanced language model that employs transformer architecture for a variety of natural language processing tasks, including speech generation and language comprehension. This architecture allows AI-powered chatbots to model the relationships between words in sentences, maintain contextual awareness, and generate responses that are both coherent and pertinent.

##### **b. Providing Personalized Responses:**

ChatGPT can be trained on large datasets to provide personalized responses based on the context of a given prompt. This capability enables users to engage in conversations with the chatbot that feel authentic and customized, thereby enhancing the personalization of each interaction.

##### **c. Increasing Accessibility of Information:**

ChatGPT simplifies the process for students and educators to access information across various platforms, including websites and mobile applications. From an educational viewpoint, this can save students time in locating information, enabling them to dedicate more attention to reading and critically analyzing the content. Moreover, ChatGPT can support teachers in identifying and developing pertinent instructional materials.

- **Weaknesses of ChatGPT**

- a. **Lack of Deep Understanding:**

Although ChatGPT can produce satisfactory responses to complex problems, empirical studies indicate that its answers frequently lack a profound understanding of the underlying theoretical concepts. This limitation can be addressed if there is an established process to achieve the required depth and nuance for a more meaningful comprehension.

- b. **Limited Higher-Order Thinking Skills:**

While ChatGPT can assist in achieving complex learning outcomes, it is less effective in addressing content that necessitates higher-order thinking skills, such as critical and analytical thinking. For example, it has a limited capacity to generate questions that require deep critical thinking, as these questions demand a more profound understanding of the subject matter.

### **2.3 Learning English**

Emphasizes the pervasive nature of the English language, noting its widespread usage and its status as a global language. English has achieved a remarkable presence across the world, becoming the primary means of communication in various domains such as business, education, and international relations (Corbett, 2022). Its influence can be witnessed in diverse countries and cultures, enabling individuals from different backgrounds to connect and interact effectively. With its extensive reach and prevalence, English has undoubtedly established itself as a dominant and indispensable language in today's interconnected world (Rao, 2019)

The importance of learning English lies in its ability to enable effective communication with individuals from diverse backgrounds across the globe (Tolibovna, 2022). By acquiring English language skills, individuals gain the means to interact and connect with people from different cultures, facilitating international understanding and collaboration. English serves as a lingua franca in many sectors, including business, tourism, academia, and diplomacy, making it a valuable tool for professional and personal growth. Moreover, proficiency in English opens

doors to a wealth of educational and employment opportunities, enhancing one's global perspective and widening horizons (Bacha et al., 2021).

English holds the status of a universal language, being widely understood and used across the globe. It serves as the language of education, enabling access to a wealth of knowledge and academic resources (Pereltsvaig, 2020). Additionally, English dominates the realms of the Internet and press, with abundant materials available for language learners. English proficiency enhances travel and business opportunities by facilitating communication and promoting cultural understanding. Moreover, the influence of Hollywood and English-language movies contributes to the significance of English, offering a gateway to the world of entertainment. Speaking English not only aids in personal expression but also enables Furthermore, English is considered flexible and relatively easy to learn, further incentivizing its acquisition (Tai, 2022).

### **2.3.1 Learning English components**

The mastery of a language involves four primary elements: speaking, writing, listening, and reading. These components are crucial for achieving a comprehensive command and fluency in the language (Perdebaevna & Urakbaevna, 2021).

#### **a. Reading**

All students must possess an understanding of reading comprehension, which is a crucial language skill. Reading comprehension refers to the ability to understand and interpret the meaning of written texts. It involves employing strategies to achieve specific goals and extract information from written materials (SAVITA, 2015).

#### **b. Speaking**

Acquiring the skill of speaking holds significance as it serves as the means to interact with individuals, enabling the conveyance of perspectives and the expression of thoughts Speaking is the process of delivering language through the oral cavity (Rustamov & Mamaziyayev, 2022). It involves the utilization of various parts of the body, including the lungs, vocal tract, vocal cords, tongue, teeth, and lips. According to the Speaking and Listening guidelines from Western Australia, educators should provide meaningful opportunities for students to participate in purposeful conversations. Additionally, they should explicitly teach the components of various types of communication, such as planned and unplanned discourse, formal and informal language, dialogue and monologue, and public and private speaking (Newton & Nation, 2020).

**c. Listening**

The term "listening" refers to the process of perceiving and interpreting auditory stimuli, such as speech or music, through the auditory system. It involves the reception and processing of sound waves by the ear, as well as the neural encoding and interpretation of these auditory signals in the brain. (Obleser & Kayser, 2019)

**d. Writing**

Writing is often considered the most challenging aspect of acquiring a second or foreign language. Writers employ this complex skill to convey new ideas, persuade others, document information, create fictional worlds, express emotions, entertain, facilitate healing, share experiences, and explore the meanings of events and situations (Graham, 2019). Writing is a means of expressing the language you naturally use in spoken communication. It involves conveying thoughts to others in written form, whether on paper or a computer screen, as well as the process of discovering and organizing your ideas, articulating them on paper, and reshaping and revising them (Myers in Juniardi & Utami, 2013). The author concludes that writing is a multifaceted skill that enables writers to learn, persuade, document, create, express, entertain, heal, experience, and explore. It involves generating language akin to spoken communication, conveying ideas in written form on paper or a computer screen, and engaging in the processes of discovering, organizing, reshaping, and revising those ideas.

**2.4 ChatGPT in EFL Learning**

ChatGPT, an advanced general-purpose chatbot created by OpenAI, has revolutionized the field of language education by introducing a wide array of opportunities and challenges. Its exceptional capability to generate diverse textual outputs, respond to queries, and perform translations within a matter of minutes has positioned it as a powerful tool in the age of sophisticated AI technologies (BENBADA & BENAOUA, 2023). Despite its growing influence, there is still limited understanding of the extent to which ChatGPT can effectively support students in completing specific language learning tasks. This gap in knowledge underscores the need for further research to evaluate its potential and limitations in facilitating language acquisition and enhancing educational practices (Mahdavi, 2020).