

CHAPTER IV

FINDINGS AND DISCUSSION

A. Findings

This study aims to explore applications powered by artificial intelligence specifically designed as English speaking practice assistants, as stated in the research objectives. The research results obtained are presented in this chapter, which is divided into two main parts: Findings and Discussion. In this context, digital resources include both resources that were originally created in digital format, as well as resources that were previously in analog format but have been converted into digital format. The discussion of these findings will outline in depth how these AI-based applications can contribute to improving English speaking skills and their impact on the learning process.

In the Findings section, the researcher examines the features of AI - Based Android Apps can facilitate English speaking practice assistance and the research classifies which AI is best to use as an assistant to practice speaking English.

1. Sivi

Sivi AI is an application designed to help users learn and improve their English speaking skills using artificial intelligence technology. With an interactive and personal approach, this application offers an easily accessible learning experience anytime and anywhere.

Sivi can be a very helpful choice for beginners and intermediate learners, but for advanced users, this application will feel shallow. Sivi has several key features that are very helpful in practicing English speaking. Real-time Feedback capabilities related to pronunciation, grammar, and fluency in Sivi's AI-based Android application.

Here are the main features that can help users improve their speaking comprehension:

a) Speaking Exercise

The main exercises that can be found in Sivi are speaking. In fact, all these exercises will be very helpful in improving the user's vocabulary, grammar, and speaking skills. Pronunciation exercises are also provided with accurate pronunciation of words for the user to imitate. In live feedback, the app provides leeway for instant correction. The app is equipped with conversation simulations with real-life scenarios such as talking in a restaurant, a job

interview, or a casual discussion. Users can practice understanding and responding appropriately in different contexts, which can train the understanding of the context of the conversation and get used to different expressions and communication styles.

The speaking exercises are specifically designed to develop pronunciation, intonation, and fluency. Sivi recognizes speech with advanced speech recognition technology and provides instant feedback to the user for faster improvement. The app starts with basic phrases and sentences to lay the foundation, introducing increasingly complex content that includes idiomatic expressions and conversational scenarios. In this way, the difficulty increases gradually, and learners will be able to lay a solid foundation before moving on to more difficult materials.

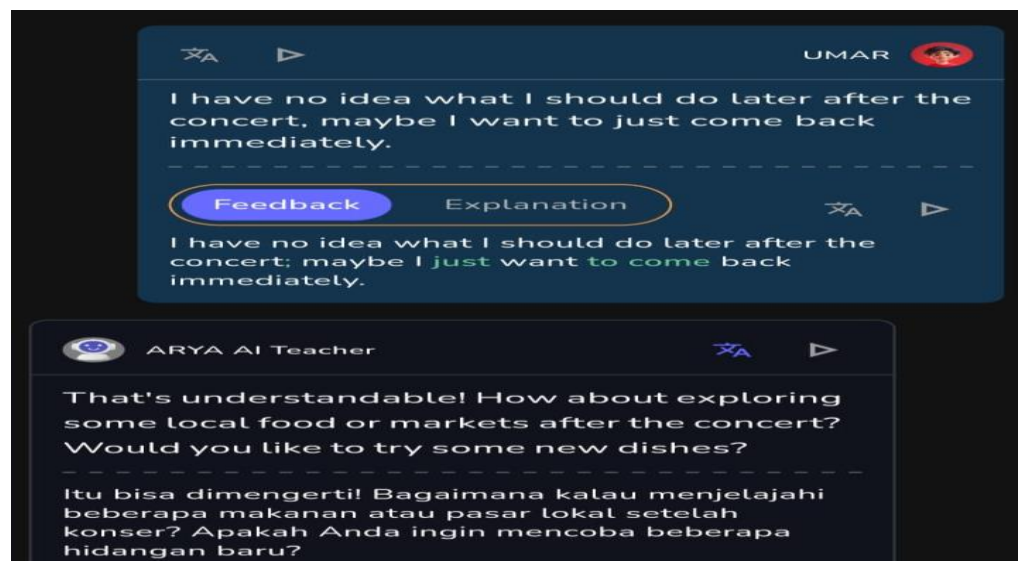


Figure 4.1

More importantly, the striking feature is the instant feedback mechanism: right after a few phrases or sentences are spoken by the user, the application evaluates the pronunciation, underlines mistakes, and provides audio and visual feedback. In addition, Sivi is able to simulate conversational contexts: answering questions, repeating phrases, or describing situations. Such exercises help users develop a natural rhythm and flow of speech, which is essential for real-world communication.

b) Real-Time Feedback on Pronunciation

The AI-powered Sivi Android app provides real-time feedback on pronunciation, intonation, and fluency. This helps users realize their mistakes and correct them on the spot. This of course makes it easier for users to receive feedback and corrections so that they can pronounce words better, making it easier to understand when talking to others. Because users are talking to AI, of course they will not feel uncomfortable or embarrassed when making mistakes in speaking. Usually people do not want or are even lazy to learn to speak a language, especially English, because they are afraid of making unintentional mistakes because they are still in the learning process. Not only for someone who is shy, even people who are used to being social will be afraid when making mistakes in front of others. Therefore, using AI as a speaking learning assistant is a very right decision to take.



Figure 4.2

c) Vocabulary and Key Phrases

The AI-based Android application Sivi provides vocabulary and phrase exercises that are often used in everyday conversations. This feature helps users build a strong foundation in understanding the meaning of words and phrases that are commonly used in everyday conversations. This exercise is able to strengthen the understanding of terms that often appear in verbal communication and help users respond appropriately in various conversational situations. The vocabulary and Key Phrase exercise feature in the Sivi application is available with a leveling system, which will continue to increase in difficulty depending on how far we have gone through the learning exercise.



Figure 4.3

d) Progress Tracking and Analysis

The progress tracking feature provided by Sivi provides insight into how far the user's ability has come in practicing speaking, such as fluency, contextual understanding, and listening skills. This feature is very useful, because it can tell users which parts need to be fixed to improve comprehension. And provide motivation through statistics that show the user's progress when improving their speaking skills. As usual, a teacher assesses and records the development of his students so that he can always determine what material is appropriate to be given to his students. So, users don't have to wait long to find out how far their

abilities have developed and determine what other materials should be chosen by users to continue developing their speaking skills.



Figure 4.4

e) Listening Integration

Before starting speaking practice, Sivi provides a listening session related to a particular topic. Of course, the goal is for users to get used to listening to conversations in English, and this can also help users to better understand the context of the conversation before starting to speak. The Sivi application has several different voice, accent, and intonation options to hone listening skills that are directly related to speaking comprehension. Although not yet perfect in

imitating the human voice, at least users get an idea of the differences in voice, accent, and intonation of the person they are talking to that will be faced in direct speaking practice later.

f) **Gamification for Continuous Practice**

Gamification systems such as badges, points, and daily challenges can definitely motivate users to practice consistently to improve speaking comprehension. Because, if there is no encouragement to continue doing exercise every day. Users will definitely not be able to achieve their desired targets. This thing of course aims to make the learning process more fun and interesting, so that users remain comfortable and diligent in doing exercises and encourage users to continue practicing their speaking skills.

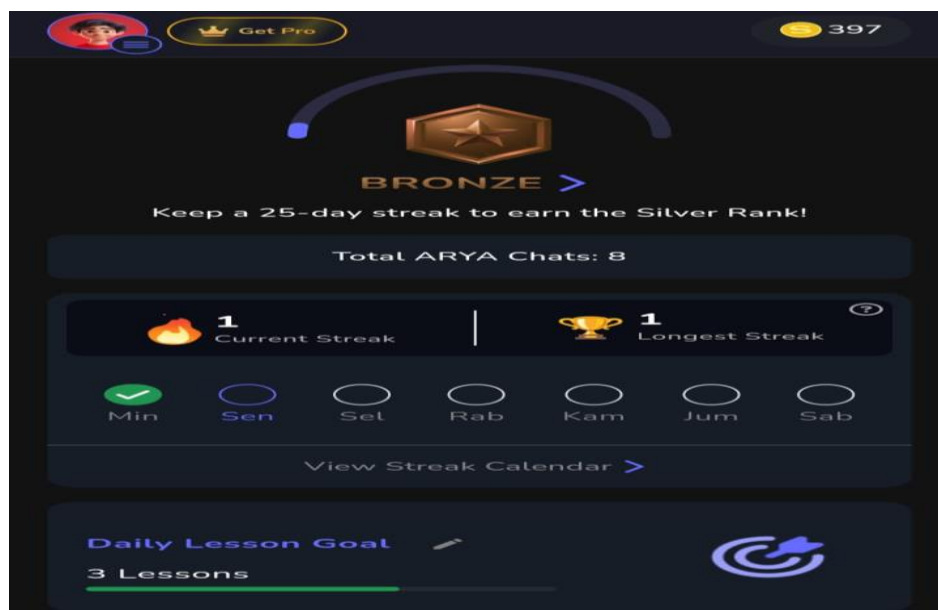


Figure 4.5

g) English Exam Simulation

The Sivi Android application provides speaking exercises that mimic the format of exams such as IELTS or TOEFL, where users must understand questions and provide relevant answers. Usually we need a tutor or someone else to do this practice, so that we can make thorough preparations in preparing for exams such as IELTS or TOEFL. Although it still feels lacking without guidance from an official tutor, we can use the Sivi Application so that we no longer need to bother or spend additional costs to take an official practice exam. At least we can improve our speaking skills in formal and structured situations and practice quick understanding of the questions asked, because we can continue to repeat the practice whenever and wherever we want.

From the explanation this AI Android application can also provide interactive replies based on the situation in the conversation. So, users can immediately recognize mistakes and correct them. Sivi's AI-based Android application also has a reply suggestion feature if you are confused about what to say in a conversation. However, Sivi's AI-based Android application has two prominent shortcomings, namely the lack of simulation features and more complete materials if using the free version and must always be connected to the internet.

2. .Loora

Loora is an AI-powered English learning app that acts like a personal tutor, providing a personalized learning experience for users. With an interactive and flexible approach, the app is specifically designed to help users develop their English speaking skills. Loora offers personalized conversation sessions, where users can practice speaking in a variety of situations and topics, tailored to their ability and level of progress. This personalized approach allows each user to learn in a way that best suits their learning style, making the learning process more effective and enjoyable. With features that facilitate real-time interaction, Loora makes it easy for users to practice speaking anytime and anywhere, giving them the opportunity to continuously improve their English speaking skills in a supportive and stress-free environment.

Here are the main features that can help users improve their speaking comprehension:

a) Contextual Conversation Practice

As an Android-based AI application, Loora has the ability to simulate highly realistic conversations, tailored to the context of the ongoing conversation. With this ability, Loora can collect a large amount of data related to the user's speaking patterns, allowing the application to provide relevant and appropriate responses to the way we speak. The application uses the collected data to

analyze the context and flow of the conversation, allowing Loora to respond in a more natural and appropriate way to the situation at hand. This makes the experience of communicating with Loora increasingly similar to a conversation with a native speaker, as the application can adapt to the dynamics of the ongoing conversation, creating a more immersive and contextual interaction.

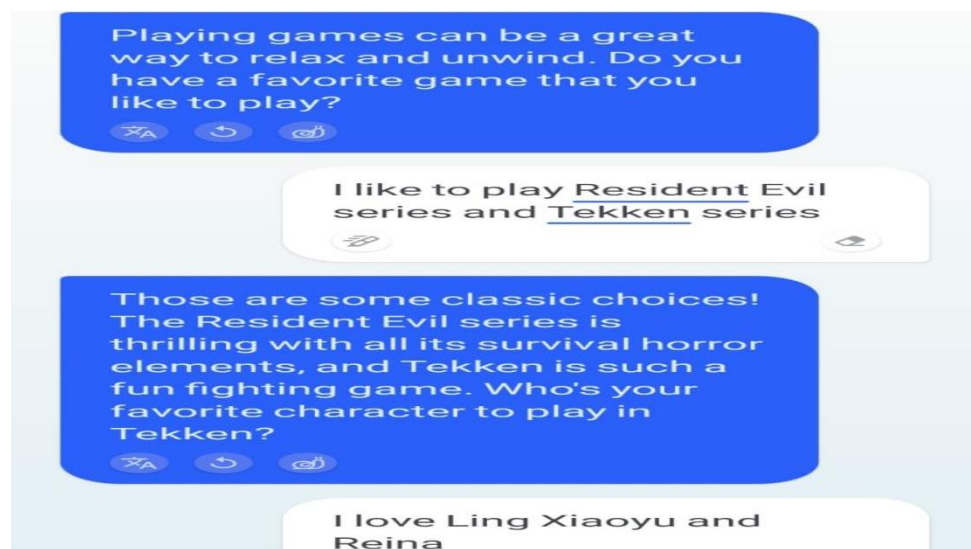


Figure 4.6

b) Interactive Conversation with real situations

This application simulates conversations in real-life contexts, such as job interviews, business presentations, or everyday conversations such as casual chats with friends or new people we meet on the internet. This feature certainly provides a relevant experience for users to use English in real-world situations. Users can choose from a variety of conversation topics available to practice their understanding and respond to questions and statements they might

encounter when talking directly to others. This is important because English is not only used in certain situations or conditions, but also in various communication contexts that can be found in everyday life. Thus, this application helps users prepare themselves for various conversations and improve their speaking skills in various social and professional contexts.

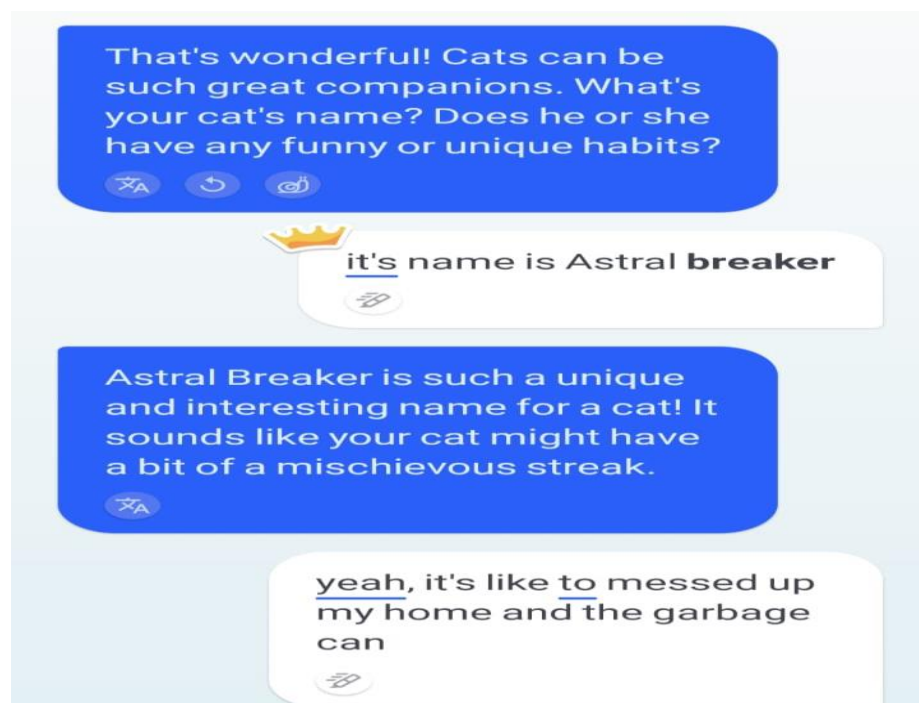


Figure 4.7

c) Real-Time Feedback on Pronunciation

The AI-powered Loora Android app provides real-time feedback on pronunciation, intonation, and fluency. This helps users realize their mistakes and correct them on the spot. This of course makes it easier for users to receive feedback and corrections so that they can pronounce words better, making it easier to understand when talking to others.

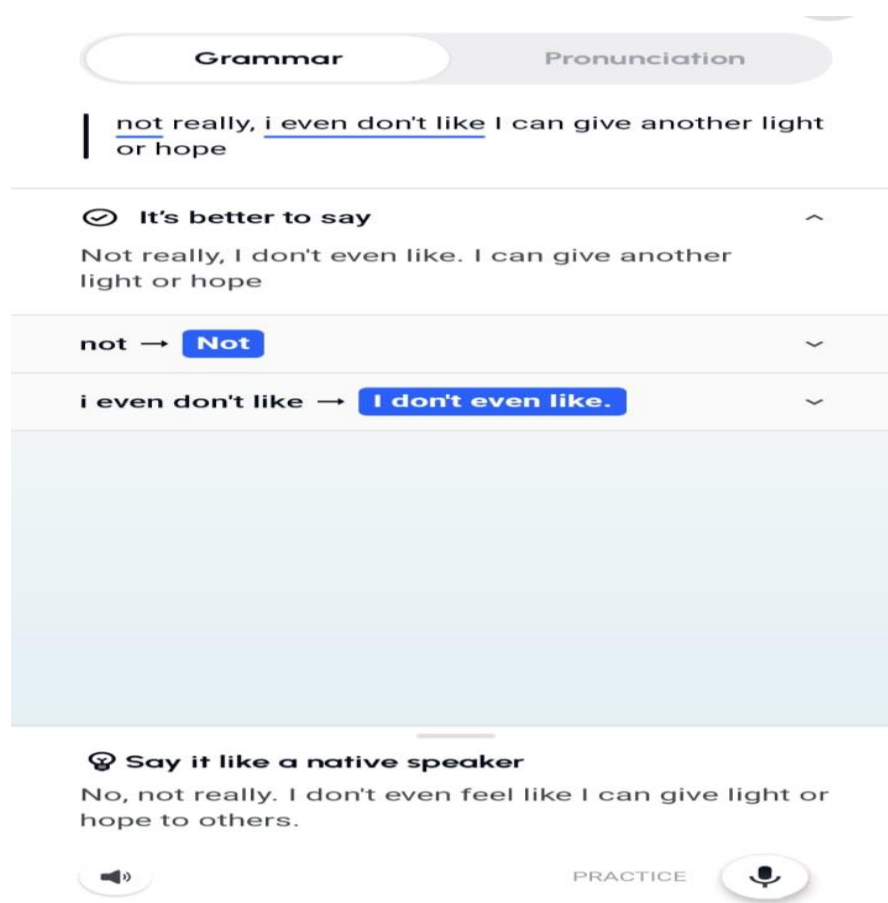


Figure 4.8

Because users are talking to AI, of course they will not feel uncomfortable or embarrassed when making mistakes in speaking. Usually people do not want or are even lazy to learn to speak a language, especially English, because they are afraid of making unintentional mistakes because they are still in the learning process. Not only for someone who is shy, even people who are used to being social will be afraid when making mistakes in front of others. Therefore, using AI as a speaking learning assistant is a very right decision to take.

d) 24/7 Virtual Tutor

Loora provides an AI-based virtual tutor who is always ready to interact and have a conversation at any time. Users have the freedom to choose various conversation topics according to their interests and needs, allowing them to practice language comprehension and respond to questions and statements whenever they want, wherever they are. This feature provides very high flexibility, allowing users to learn and practice speaking without time or place constraints, which is very beneficial for those with busy schedules. With easy and continuous access to these conversation sessions, users can optimize their time to practice speaking, even in the midst of daily activities, making the learning process more efficient and can be adjusted to each individual's routine.

e) Progress Analysis

Loora has the ability to monitor the user's progress in various aspects, such as fluency, correct pronunciation, and understanding of the context of the conversation. By providing interesting and detailed statistics, Loora can provide clear insight into how far the user has improved their speaking skills. These statistics not only serve as an indicator of progress, but can also provide additional motivation for users to be more enthusiastic in continuing their learning. By knowing which areas still need more attention, users are encouraged to focus on certain aspects that need to be developed, so that they can continue to improve their overall speaking skills. This approach creates a more targeted learning experience and can increase users' confidence in using the language more effectively.



Figure 4.9

f) Gamification For Constitent Learning

Loora uses gamification elements like most games nowadays, such as awards, points, and levels to motivate users to keep practicing consistently. This aims to make the learning process more interesting and ensure users continue to practice, which is important for speaking comprehension.

In fact, this Loora AI-based Android application promises several interesting features from the Loora AI-based Android application, namely, a virtual tutor that is available anytime without schedule restrictions, interactive conversation simulation features with various real-life situations, Real-Time feedback, personalized materials to provide an effective and relevant learning experience, tracking user speaking progress, and focusing on speaking fluency rather than theory. And the drawbacks of this Loora AI-based Android application are that there are very many feature limitations due to premium access and must always be connected to the internet.

3. Stimuler

Stimuler is an English learning application specifically designed to develop speaking skills. By utilizing artificial intelligence (AI) technology, this application offers a very effective and easy way for users to practice speaking in various communication situations. Stimuler provides interactive exercises that allow users to practice speaking independently in various scenarios, both formal and informal situations, to improve their communication skills. This

application is perfect for those who want to learn independently, because it gives users the opportunity to practice anytime and anywhere without relying on an instructor or a specific schedule. With features that facilitate practical and contextual speaking practice, Stimuler is a very effective tool in helping users improve their English speaking skills significantly.

Here are the main features of Stimuler AI that support this goal:

a) Realistic Conversatio Simulation

Stimuler AI offers conversation simulations based on real-life situations, such as ordering food at a restaurant, having a conversation at work, or attending a job interview. Users can practice speaking by responding to virtual dialogues designed to reflect real-world scenarios that are often encountered in everyday life. Through these exercises, users not only practice their speaking skills in a variety of contexts but are also taught to respond quickly and appropriately in conversations. These simulations allow users to practice using relevant expressions and phrases according to the situation, strengthening their ability to communicate effectively and naturally in a variety of settings. This type of practice is very helpful in honing the speaking skills needed to interact with others, both in professional and social settings.

b) Pronunciation and Intonation Correction

The AI stimulator provides immediate feedback on the user's pronunciation, intonation, and fluency. With this feature, the app helps users identify and correct their pronunciation mistakes, so they can effectively improve their pronunciation accuracy. In addition, the app also teaches how to speak with a natural and professional intonation, which is essential for communicating clearly and effectively. With exercises that focus on intonation and fluency, users can hone their speaking skills, not only in pronouncing words, but also in adjusting the appropriate tone and rhythm of speech, so they sound more confident and understandable in both formal and everyday situations.

c) Vocabulary and Phrase-Based Practice

The app provides exercises specifically designed to introduce essential vocabulary and everyday expressions that are frequently used in everyday conversations. These exercises aim to expand the user's vocabulary, enabling them to speak more confidently and fluently. By learning and mastering vocabulary that frequently appears in everyday communication situations, users can interact more effectively and naturally in various conversations. In addition, the app also teaches how to use the vocabulary in relevant contexts, helping users understand the right way to apply it, both in formal and informal situations. This learning focuses not only on mastering words, but also on how

to choose and use the vocabulary in a way that is appropriate to the context of the conversation, thereby improving their overall speaking ability.



Figure 4.10

d) **Interactive Feedback and Progress Tracking**

After each practice session, AI Stimuler performs an in-depth analysis of the user's performance and provides a comprehensive evaluation of the user's fluency, sentence structure, and the relevance of their answers. This evaluation process includes assessing how fluently the user expresses their ideas, whether the sentence structure used is grammatically correct, and the extent to which their answers are relevant to the question or topic being discussed. By providing this detailed feedback, the app helps users better understand the aspects that

need improvement in their speaking, while also providing clear insight into which areas they have mastered and which still need further development. This evaluation aims to support a more effective and targeted learning process, so that users can continue to improve their speaking skills over time.



Figure 4.11

e) Quick Response Practice

This application offers listening and speaking exercises designed with a variety of interesting responses, so that users can still enjoy a fun and interactive speaking experience. For this reason, Stimuler needs to have the ability to respond to various questions or statements with varied responses. This is very important so that the application can encourage users to continue practicing speaking, anytime and anywhere, without feeling bored or hampered by certain limitations. With this approach, users can develop their speaking skills in various situations that require quick and precise verbal reactions. This kind of exercise not only helps improve speaking fluency, but also trains the user's ability to adapt and respond confidently in conversations that require good verbal reflexes.

f) Gamification for Consistent Learning

Gamification elements such as points, daily challenges, and rewards play a vital role in keeping users motivated. With these elements, the learning process becomes more fun, engaging, and less boring. Users feel encouraged to continue participating and practicing, which is crucial in the process of developing their speaking skills. More than just providing incentives, these gamification elements create a more interactive learning experience and

provide the necessary encouragement to maintain consistency in practicing, which is key to improving speaking skills effectively.

g) Offline Mode

Users can access speaking exercises even if they are not connected to the internet, which provides the flexibility to learn anytime and anywhere according to their needs. This allows them to continue practicing without being limited by an internet connection or a certain time, making the learning process more practical and can be adjusted to their daily routine. In addition, the application provides unlimited access to various practice materials, allowing users to repeat and explore training content as much as they want, without worrying about time constraints or limited access. Thus, it increases the convenience of users in maintaining the continuity of their learning process whenever needed.

h) Focus On Professional Situations

AI Stimulus provides specific exercises designed for professional contexts, such as presentations, job interviews, and formal discussions. With these exercises, users can practice their speaking skills in situations commonly encountered in the workplace, helping them speak confidently in a variety of professional interactions. The exercises, which focus on formal contexts, not only develop general speaking skills but also equip users with structured

speaking skills that are in line with communication norms in the workplace. This way, users can be more prepared and confident in dealing with various speaking situations that require a level of formality and precision, such as giving a clear presentation, facing a challenging job interview, or participating in a formal discussion with colleagues or clients.

i) Language Cultural Enrichment

The app also introduces various cultural aspects that influence the way you speak, such as idioms, typical expressions, and certain communication styles that are commonly used in society. By introducing these cultural elements, the app helps users to speak in a more natural and appropriate way to the relevant cultural context. This allows users to not only understand the language technically, but also adapt to a more authentic way of speaking that is in accordance with the communication norms prevailing in the culture. Furthermore, understanding these cultural elements also makes it easier for users to interact and communicate with native speakers, as they can adjust their way of speaking to the right social and cultural context, which in turn improves the quality of their conversations.

Overall, using an AI-based Android App for speaking practice can provide significant benefits in improving speaking skills and language comprehension even without the help of a tutor or other person directly.

B. Discussion

The researcher arrived at this discussion section after conducting research using the documentation method. The researcher collected and analyzed data in the previous procedure, and this study has two research questions: What Artificial Intelligence (AI) can be used as an assistant to enhancing English speaking comprehension? and what are the special features that have great benefits in enhancing Speaking Comprehension in English?

Researchers have found many AI-based Android applications that can function as assistants for learning to speak English. Efendi Hidayatullah's (2024) findings show that technology can increase students' learning motivation and expand access to learning resources. He emphasized the importance of an interactive and adaptive learning environment, which is often not available in traditional classrooms. AI-based Android applications can provide real-time feedback and personalized learning experiences, in line with the principles advocated by Efendi Hidayatullah, thus contributing to the improvement of English language skills.

To answer the research questions, researchers identified several key points in their findings. What are the AI-based Android applications that can be used to develop English speaking skills? What are the special features of each application that provide great benefits in developing speaking skills? In

addition, Qing Lyu et al. (2023) highlighted the effectiveness of AI in language learning, especially in improving reading and listening skills among high school students. However, their study did not discuss in depth the impact of AI on speaking skills.

Overall, the study found that AI-based apps such as Speakify, Loora, and Stimuler apply various theories and approaches from linguistics, psychology, artificial intelligence technology, and education to improve users' language skills. These apps adopt Stephen Krashen's second language acquisition theory by using a comprehensive input and output practice approach. These apps provide slightly more difficult materials than the user's level to encourage development and encourage users to practice speaking through simulations and interactive conversations.

The conversation simulation feature in Speakify, Loora, and Stimuler uses real-life contexts to practice user responses. B.F. Skinner's behaviorism theory is also relevant because it emphasizes reinforcement through repeated practice and feedback; Loora provides immediate feedback on pronunciation and grammar to correct errors, while Stimuler uses gamification as a form of positive reinforcement to motivate users. In addition, that AI-based apps allow users to construct their own knowledge through active interaction with learning materials, as seen in Speakify which applies a context-based learning approach where users learn language through experience and simulation.