
The Role Of Cake App : AI Features in Learning English : Literature Riview

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ABSTRACT

Artificial intelligence (AI) is revolutionising English language learning in the digital age, especially through mobile applications. This study investigates how the Cake App, an AI-powered language learning tool, can improve students' speaking and listening abilities in English, particularly in the context of English for Specific Purposes (ESP). This study examines prior research using a library research approach in order to identify and characterise the AI features of the app, including interactive video content, speaking simulations powered by AI, and pronunciation feedback, all of which aid in language learning. Results indicate that the Cake App offers a learner-centred, immersive setting where students can practice using real materials and get immediate feedback. Through interesting, individualised learning experiences, these AI features help students improve their vocabulary, pronunciation, fluency, and comprehension. This study concludes that the Cake App is a useful educational tool that aligns with communicative and task-based learning principles, offering significant pedagogical implications for English teachers in technology-enhanced classrooms. Additionally, the app encourages motivation and autonomy, allowing students to progress at their own pace.

Keywords: Cake Application; Artificial Intelligence (AI); ESP

Introduction

English as a global language, English proficiency is essential, particularly in professional and academic settings where English serves as a lingua franca. Consequently, there is a great need for efficient English language learning strategies. English is the most widely spoken language in a very unique part of the world. According to Suhirman et al., (2023) several strategies are used to improve English language learning in educational environments, the study explores cutting-edge techniques and strategies to accommodate a variety of learning styles because it acknowledges the significance of effective language training. Therefore, new methods for learning second languages, especially English, have been introduced by the growing incorporation of artificial intelligence (AI) into educational technology.

Technology has transformed the world of education (Raja & Nagasubramani, 2018). Technology fundamentally represents a way of improving human capabilities by the

developing and applying of tools, machines, and processes. In education, technology plays an important role in education by improving learning outcomes, developing vital skills, and preparing students to flourish in a digital world (Kalyani, 2024). Moreover, in education technology is intended to be utilized to help teachers and students with the learning activities that occur in classrooms. The success with which a school uses information and communication technology (ICT) to satisfy its needs indicates the institution's progress. Applications, web pages, software, and machine learning are examples of how technology may aid in teaching and learning. The previous study shows that students find the app engaging and useful for self-directed learning, allowing them to set personal goals and control their learning processes independently (Sri Redjeki et al., n.d.)

Additionally, mobile applications have grown in popularity due to their ease of use and interactivity. In this study, one prominent example of this trend is the Cake app. "Cake" application created for English language learners, offers a large collection of short, authentic video clips with synced subtitles, allowing users to practice listening in an entertaining environment. According to Gusti et al., (2022) compared to traditional ways, using cake can improve student learning outcomes. In brief, the Cake application is convenient and widely available, allowing students to learn English whenever they want and wherever they are.

Cake application is one of the example of artificial intelligence, Then, Cake application provides students with interactive with AI-powered resources to improve their vocabulary, pronunciation, and listening comprehension. Based on Liu et al. (2021), AI improves language learning by providing real-time feedback and modifying content based on learners' progress. Lestari, n.d. states AI speech recognition to verify the pronunciation while speaking exercises that mimic dialogue with a native speaker are provided via these features. In the new age, several crucial topics are highlighted in building AI Futures: closing the gaps between human, natural, and social AI, as well as developing human-like/level AI, meta AI, reflective AI, meta synthetic AI, data-driven AI, beyond 'IID AI,' actionable AI, and sustainable AI (L. Cao, 2022). Furthermore, AI features in Cake app is tool as AI Speaker and pronunciation feedback. These features imitate real-life speaking situations, allowing students to practice and improve their English interactively. This research analyses the role of AI in the Cake App and its contributions in English learning. The objectives of the study is to identify and describe the Cake App's AI features in the context of English learning. Then this study offers insights for educators, learners, and other academics with the strengths and limits of Cake App's AI features learning tools.

Literature Review

English Learning

English learning has undergone revolutionary changes brought about by learner-centred approaches, digital innovation, and pedagogical changes. During this time, research has become more and more concerned with how English language learners adjust to

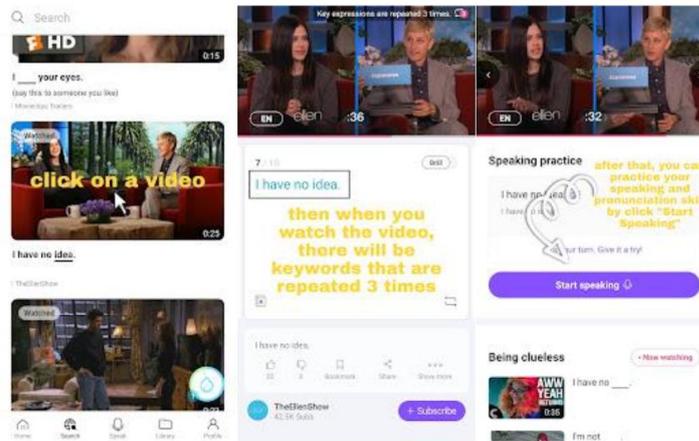
technologically improved surroundings and how these advancements affect motivation, pronunciation, and language acquisition. Ip & To (2025) states that English learning is one of the most important variables affecting self-efficacy in English. Students have their own challenges in language learning especially in English learning. However, based on Fakhurririana & Ningsih, (2023), studying English can be extremely difficult for many people who reside in a nation where English is taught as a foreign language, such as Indonesia. In the context of English learning, Pranawengtias, (2022) argues that affective attitudes and circumstances are what motivate students to put in more effort in order to meet the objective of learning English. Moreover, it plays a big role in how much effort they put into learning English. Understanding students' English learning motivation is crucial for ensuring their success in learning English (Menggo, 2018). With great motivation, students are capable to respond in learning situations and look for every opportunity to acquire English, take advantage of available opportunities to practice the language, possess analytical skills, adapt to learning situations, have self-esteem, and dare to take risks for their learning. Thus, according to Liang, (2024), the process of learning a language is complex, and as learners advance their language skills, they usually encounter a variety of challenges. Previous study has shown that AI-based applications improve learners' communicative ability by offering personalized feedback and repetition based on their input, hence boosting authentic language use (Yang, H at al. 2022). For instance, the AI Coach/Speaker in Cake App enables users to mimic dialogues and receive pronunciation scores, thereby improving fluency and accuracy in accordance with CLT principles.

Cake Application

The "Cake" app is a mobile language learning platform that leverages real-world video footage to enhance users' English speaking and listening abilities. According to Yanthi (2021), "the Cake application is the newest and most popular Android mobile application made by South Korea." It's a program that teaches people to watch while listen the video. It helps students to listen carefully by some features of Cake app". It selects brief, interesting video snippets from a variety of sources, such as films, TV series, vlogs, and instructional materials. The use of applications in the teaching-learning process can make it easier for teachers to deliver courses, and students can grasp more quickly and avoid boredom due to a new technique. One of the applications is Cake Application. Juliana, (2024) states Cake application contains many English accents and dialects, is user-friendly, and has gotten great comments; yet, some users find it dull and suggest improvements.

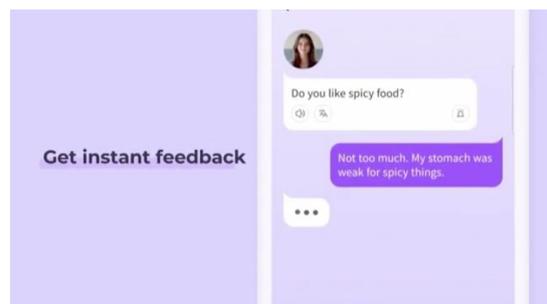
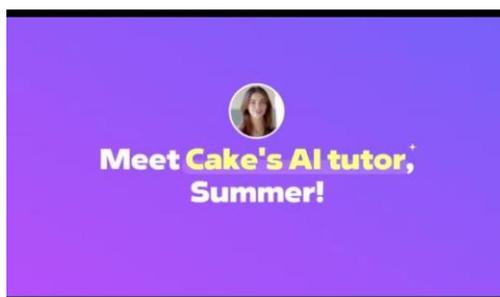


Key features include :



- **Short Video Clips:** Provides bite-sized content that is easy to digest and review.
- **Dual Subtitles:** Offers both English and learners' native language subtitles, which can be toggled on or off.
- **Repeat and Speed Control:** Users can repeat specific lines or slow down the audio for better comprehension.
- **A.I. Speak:** Allows users to record their pronunciation and receive immediate feedback.
- **Daily Expressions:** Focuses on practical, everyday English expressions.
- **Quizzes and Review:** Includes short quizzes and review functions to reinforce learning.

Additionally, Cake app has AI features. Through the use of state-of-the-art AI technology, the app extends learners' speaking abilities by offering pronunciation feedback. By repeating words after each line, watching films with subtitles, and getting real-time pronunciation feedback to users in learning English. These features offer captivating repetition and self-correction procedures, simulating real-world speaking scenarios.



AI tools enable immersive settings for practicing spoken English and writing, increasing practical abilities through real-life simulations (Anggraini & Faisal, 2024) (Ghafar at al., 2023). Moreover, using personalized feedback mechanisms ensures that each learner advances at their own pace, targeting specific strengths and weaknesses. Based on Cake Corp, (2018) Cake's app site on the Play Store will aid improve speaking skills with the following images: Watch videos with subtitles and repeat after each line; AI will check the user's pronunciation. Additionally, to support this study. Previous study has shown AI-based Cake English learning program can help students enhance their speaking skills (Mas Utama, I. W. G. 2024).

Method

This is a library research study. It is data collection research, scientific writing that focusses on the subject of the investigation, bibliographic data collecting, or a study that addresses an issue based on a critical and in-depth assessment of relevant library resources. The use of Cake App's AI features in the context of English learning, particularly its role in increasing students' motivation to learn. The use of challenge-based exercises in AI applications has been found to dramatically increase motivation (Ithriyah & Meilana, 2025). Scholarly articles, scientific journals, and relevant research papers are used as data sources for the study. Data is obtained by identifying and analyzing documents, and each source is deemed knowledge from prior research that is relevant to this study. This research necessitates a thorough reading and analysis of textual sources. The chosen and categorized data is then presented descriptively, using indirect quotations and theme grouping. This encourages a more complete understanding of the results and helps to clarify the links between concepts.

Results and Discussion

Learner-centred approaches and digital innovation are driving significant transformations in English language education. Learners, especially in EFL contexts like Indonesia, face substantial difficulties (Fakhrurriana & Ningsih, 2023). Motivation, influenced by affective attitudes (Pranawengtias, 2022), is crucial for successful English acquisition (Menggo, 2018), enabling learners to be responsive, analytical, and risk-taking (Liang, 2024). English learning also significantly affects self-efficacy (Ip & To, 2025). AI-based applications significantly improve learners' communicative ability through personalized feedback and repetition, promoting authentic language use (Yang, H et al. 2022), as exemplified by features like pronunciation scoring in apps such as Cake.

Cake application and It's Features

The Cake app utilizes cutting-edge AI technology to offer instantaneous pronunciation feedback, allowing users to repeat words consecutively, view videos with subtitles, and obtain prompt corrections.

These features facilitate engaging repetition and self-correction, creating an immersive environment that simulates real-world speaking scenarios. The use of AI tools in the Cake app has been shown to increase practical spoken English and writing abilities through these realistic simulations, as supported by previous research (Anggraini & Faisal, 2024; Ghafar et al., 2023).

Furthermore, the app's personalized feedback mechanisms allow learners to progress at their own pace, addressing individual strengths and weaknesses effectively. A previous study specifically on the AI-based Cake English learning program also confirmed its effectiveness in improving students' speaking skills (Mas Utama, I. W. G., 2024).

The study finds that the Cake app, through its innovative AI-powered features and personalized feedback, offers a highly effective platform for learners to improve their English speaking proficiency by simulating real-life practice and providing targeted guidance.

Conclusion

This study employed a library research method to critically analyze how AI features embedded in the Cake application contribute to enhancing English listening and speaking skills, especially within the context of English for Specific Purposes (ESP). The primary objective was to identify and describe the Cake App's AI features in the context of English learning with pronunciation feedback, real-time corrections, and interactive video-based learning in fostering learner motivation and improving language proficiency.

The findings demonstrate that the Cake app serves as an effective digital tool by leveraging short, authentic video content and AI-driven feedback mechanisms. These features simulate real-life speaking environments, enabling learners to practice pronunciation, comprehension, and fluency interactively. Moreover, the app's personalized and adaptive design allows learners to improve at their own pace by targeting individual weaknesses and reinforcing correct language use. The integration of AI features within the Cake app significantly supports language acquisition by making learning more accessible, engaging, and tailored to learner needs thereby positioning it as a valuable asset for English educators and learners alike in technology-enhanced environments.

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