BOOSTING EFL LEARNER'S PRONUNCIATION ABILITY BY UTILIZING AI SPEECH RECOGNITION OF CAKE ANDROID-BASED APPLICATION OF SMA NEGERI 9 WAJO

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MUTIAH NUR ADZRA
218300002

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Compiled and Submitted by

MUTIAH NUR ADZRA
NIM. 218300002

Has been defended before the thesis examination committee
on August 14th, 2021
and has fulfilled the requirements

Approved by

Committee of Supervisors

Chairman	Member
Prof. Dr. Drs. Amaluddin, M.Hum	**Dr. Siti Hajar L, S.S, S.Pd, M.Hum**
Director of Program Pascasarjana UMPAR	Head of English Language Education Department
Dr. St. Wardah Hanafie Das, M.Pd.I NBM. 948 442	**Dr. Salasiah A, S.Pd., M.Ed.TESOL-Int.** NBM. 974 232

LEMBAR PERSETUJUAN TIM PENGUJI UJIAN TUTUP TESIS

Nama Mahasiswa	:	Mutiah Nur Adzra
NIM	:	218300002
Program studi	:	Pendidikan Bahasa Inggris
Jenjang Studi	:	Program Magister / Strata Dua (S.2)
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Telah disetujui pada Ujian Tutup Tesis Program Studi S.2 Pendidikan Bahasa Inggris Program Pascasarjana Universitas Muhammadiyah Parepare
Tahun Akademik 2021/2022

Parepare, 14 Oktober 2021

Tim Penguji	**Tanda Tangan**
1. Prof. Dr. Drs. Amaluddin, M.Hum.	(.....)
2. Dr. Siti Hajar L, S.S., S.Pd, M.Hum	(.....)
3. Dr. Rafi'ah Nur, M.Hum	(.....)
4. Dr. Ammang Latifa, M.Hum.	(.....)
5. Dr. Salasiah A, S.Pd., M.Ed.TESOL-Int.	(.....)

Mengetahui,

Direktur
Program Pascasarjana UMPAR

Dr. St. Wardah Hanafie Das, M.Pd.I
NBM. 948 442

Ketua Program Studi S.2
Pendidikan Bahasa Inggris

Dr. Salasiah A, S.Pd., M.Ed.TESOL-Int.
NBM. 974 232

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This thesis contains no material which has been accepted for the award of any other degree or diploma in any other university and, to the best of the candidate's knowledge and belief, this thesis contains no material previously published or written by another person, except where due reference is made in the text of the thesis.

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Mutiah Nur Adzra
NIM. 218300002

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Mutiah Nur Adzra

ABSTRACT

MUTIAH NUR ADZRA. 2021. *Boosting EFL Learner's Pronunciation Ability by Utilizing AI Speech Recognition of Cake Android-Based Application* (Supervised by Amaluddin and Siti Hajar Larekeng).

The students of SMA Negeri 9 Wajo found a lot of difficulties in pronouncing English words and sentences such as in form of vowels (pure vowel and diphthong) and consonants. Thus, to help students overcome their problems and elevate their English pronunciation correctly, this research was aimed to improve empirically EFL learner's pronunciation ability by utilizing AI Speech Recognition of Cake Android-based application.

A pre-experimental method took all students of XI IPS 1 of SMA Negeri 9 Wajo academic year 2021/2022 by involving 20 students using random sampling technique. The data were collected through pronunciation test and questionnaire.

The result of the data found in pronunciation test was analysed by using Phyton programming language. Meanwhile, the result of questionnaire was analysed by using Likert's scale. The results of the research showed that the students' pronunciation ability after giving treatment was significantly improved. It was proved by the data of the students' mean score post-test was higher than in pre-test (88.93 > 72.75). It indicates that the use of Cake Android-based application elevate students pronunciation ability. The test of hypothesis showed that the significant value was higher than p-value (0.05 > 0.00) which means that the alternative hypothesis was accepted. Moreover, the students stated positive perceptions toward Cake Android-based application. It implicated that students feeling very helpful by involving the application in learning English pronunciation.

Keywords: *Cake Android-based Application, Speech Recognition, Pronunciation Ability, Students' Perception*

ABSTRAK

MUTIAH NUR ADZRA. 2021. Meningkatkan Kemampuan Siswa EFL dengan Memanfaatkan AI Speech Recognition Aplikasi Cake Berbasis Android (Dibimbing oleh Amaluddin dan Siti Hajar Larekeng).

Siswa SMA Negeri 9 Wajo menemukan banyak kesulitan dalam mengucapkan kata dan kalimat bahasa Inggris seperti dalam bentuk vokal (vokal murni dan diftong) dan konsonan. Oleh karena itu, untuk membantu siswa mengatasi masalah mereka dan meningkatkan pengucapan bahasa Inggris mereka dengan benar, penelitian ini bertujuan untuk meningkatkan kemampuan pengucapan siswa EFL secara empiris dengan memanfaatkan kecerdasan buatan berupa pengenalan suara dari aplikasi Cake berbasis Android.

Metode pra eksperimen ini mengambil seluruh siswa kelas XI IPS 1 SMA Negeri 9 Wajo tahun ajaran 2021/2022 melibatkan 20 siswa dengan menggunakan teknik random sampling. Pengumpulan data dilakukan melalui tes pengucapan dan angket. Hasil data yang ditemukan pada tes pengucapan dianalisis dengan menggunakan bahasa pemrograman Phyton, sedangkan hasil kuesioner dianalisis dengan menggunakan skala Likert.

Hasil penelitian menunjukkan bahwa kemampuan pengucapan siswa setelah diberikan perlakuan meningkat secara signifikan. Hal ini dibuktikan dengan data rata-rata nilai post-test siswa lebih tinggi dari pada pre-test (88.93 > 73.075). Hal ini menunjukkan bahwa penggunaan aplikasi Cake berbasis Android meningkatkan kemampuan pengucapan siswa. Pengujian hipotesis menunjukkan bahwa nilai signifikansi lebih besar dari p-value (0,05 > 0,00) yang berarti hipotesis alternatif diterima. Selain itu, siswa menyatakan persepsi positif terhadap aplikasi Cake berbasis Android. Ini berimplikasi bahwa siswa merasa sangat terbantu dengan melibatkan aplikasi dalam belajar pengucapan bahasa Inggris.

Kata kunci: Aplikasi Cake berbasis Android, Pengenalan Suara, Kemampuan Pengucapan, Persepsi

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