

**AN ANALYSIS OF ARTIFICIAL INTELLIGENCE OF  
POWERED TOOLS ON ENGLISH SPEAKING PRACTICE**

**THESIS**

**By  
LUKMAN HAKIM**



**ANTASARI STATE ISLAMIC UNIVERSITY  
BANJARMASIN  
2024**

**AN ANALYSIS OF ARTIFICIAL INTELLIGENCE POWERED TOOLS ON  
ENGLISH SPEAKING PRACTICE**

**Undergraduate Thesis**

Presented to Faculty of Tarbiyah and Teacher Training  
in partial fulfillment of the requirements for the degree of  
*Sarjana Pendidikan*

By  
**Lukman Hakim**  
200101030078

**ANTASARI STATE ISLAMIC UNIVERSITY  
FACULTY OF TARBIYAH AND TEACHER TRAINING  
ENGLISH EDUCATION STUDY PROGRAM  
BANJARMASIN  
2024**

## STATEMENT OF AUTHENTICITY

I, the undersigned, Lukman Hakim SRN 200101030078, declare that this undergraduate thesis is my original work, gathered and utilized specially to fulfil the purposes and objectives of this study, and has not been previously submitted to any other university for any degree or other purposes. I also declare that the publications cited in this work have been properly acknowledged. If someday, it is proven otherwise, I understand that my degree will be revoked.

Banjarmasin, 15 November 2024

The writer,



**Lukman Hakim**

## SURAT BUKTI BEBAS PLAGIASI

Nomor: B-545/Un.14/III.1.f/PP.00.9/11/2024

Ketua Program Studi Tadris Bahasa Inggris menerangkan bahwa mahasiswa dengan identitas berikut:

Nama : Lukman Hakim  
NIM : 200101030078  
Program : S-1  
Program Studi : Tadris Bahasa Inggris

Judul Skripsi:

An Analysis of Artificial Intelligence of Powered Tools on English Speaking Practice

Hasil Uji Plagiasi : 3 %

Berdasarkan hasil uji plagiasi dengan menggunakan [www.drillbitplagiarismcheck.com](http://www.drillbitplagiarismcheck.com) bahwa naskah skripsi ini dinyatakan memenuhi syarat batas maksimal plagiasi 25%.

“Kami sampaikan pula sebagai Satker berpredikat Zona Integritas Wilayah Bebas dari Korupsi (ZI-WBK) menuju Zona Integritas Wilayah Birokrasi Bersih Melayani (ZI-WBBM) UIN Antasari Banjarmasin berkomitmen terus menjaga integritas serta terus meningkatkan Kualitas kinerja dan Pelayanan dengan melayani lebih baik, lebih baik melayani”

Demikian surat keterangan ini dibuat untuk dipergunakan sebagaimana mestinya.

Banjarmasin, 13 November 2024

Ketua Program Studi

Tadris Bahasa Inggris



A circular official stamp of UIN Antasari Banjarmasin, Faculty of Tarbiyah and Education, English Teaching Program. The stamp contains the text: KEMENTERIAN AGAMA, PRODI - TBI, FAKULTAS TARBIYAH DAN KEGURUAN, UIN, ANTASARI BANJARMASIN, REPUBLIK INDONESIA. To the right of the stamp is a handwritten signature in blue ink.

Afifah Linda Sari

## APPROVAL

Title : An Analysis of Artificial Intelligence of Powered Tools  
English Speaking Practice

Name : Lukman Hakim

SRN : 200101030078

Faculty : Tarbiyah and Teacher Training

Program : Undergraduate Study (S-1)

Department : English Education Department

Academic Year : 2024/2025

Place/Date of Birth : Batu Raya I, 15 Februari 2002

Address : Jl. A. Yani, No. 19, RT. 1, RW. 1, Desa Pendalaman,  
Barambai

After being checked and revised, the thesis has been approved to be examined in front of the board of Examiners of Faculty of Tarbiyah and Teacher Training UIN Antasari Banjarmasin.

Banjarmasin, 15 November 2024

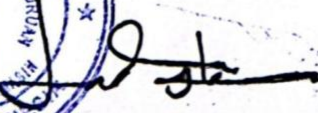
Advisor



Hidayah Nor, M.Pd  
NIP. 198806242023212032

Acknowledged by  
Head of English Education Department  
Faculty of Tarbiyah and Teacher Training  
UIN Antasari Banjarmasin,



  
Anifah Linda Sari, S.S, M.Pd  
NIP. 198711102105032004


## VALIDATION

Title : An Analysis of Artificial Intelligence of Powered Tools English Speaking Practice

Lukman Hakim 200101030078 has been examined by the board of thesis examiners of Faculty of Tarbiyah and Teacher Training UIN Antasari Banjarmasin.


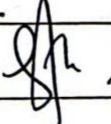
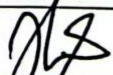
Day : Friday  
Date : 3 Januari 2024  
Score : 80,6

Dean Faculty of Tarbiyah and Teacher Training  
UIN Antasari Banjarmasin



Dr. Hamdan, M.Pd.  
NIP. 196604051993031005

### THE BOARD OF EXAMINERS:

No.	Name	Signature
1.	Afifah Linda Sari, SS, M. PD	1. 
2.	Fajriannor S. PD, M. PD	2. 
3.	Hidayah Nor, S. PD, M. Pd	3. 

## ABSTRACT

**Lukman Hakim.** 200101030078. *An Analysis of Artificial Intelligence of Powered Tools on English Speaking Practice.* Thesis. English Education Department, Faculty of Tarbiyah and Teacher Training, Antasari State Islamic University. Advisors: Hidayah Nor, M.Pd

**Keywords:** Artificial Intelligence, Speaking, Duolingo, Elsa Speak, Rosetta Stone

This study explores how artificial intelligence (AI)-based technologies such as Rosetta Stone, ELSA Speak, and Duolingo can improve English speaking skills, particularly in vocabulary, grammar, pronunciation, and comprehension. Duolingo, with its gamification approach and interactive tasks, helps enrich vocabulary and comprehension, although it provides little feedback on pronunciation and grammar. ELSA Speak, which uses advanced speech recognition technology, is very effective in improving pronunciation with real-time feedback, but lacks depth in developing grammar and vocabulary. Rosetta Stone, with its Dynamic Immersion and TruAccent technologies, provides a comprehensive learning experience, helping to improve pronunciation, grammar, and vocabulary. The study shows that the combination of these three platforms offers a holistic approach to improving English speaking skills, leveraging their respective strengths in different aspects of language, to achieve more confident and fluent conversations. In addition, the study highlights the potential of AI to transform language teaching and improve international communication.

## **ABSTRAK**

**Lukman Hakim.** 200101030078. *An Analysis of Artificial Intelligence of Powered Tools on English Speaking Practice*. Thesis. Jurusan Pendidikan Bahasa Inggris, Fakultas Tarbiyah dan Keguruan, Universitas Islam Negeri Antasari. Pembimbing: Hidayah Nor, M.Pd.

**Keywords:** Artificial Intelligence, Speaking, Duolingo, Elsa Speak, Rosetta Stone

Penelitian ini mengeksplorasi bagaimana teknologi berbasis kecerdasan buatan (AI) seperti Rosetta Stone, ELSA Speak, dan Duolingo dapat meningkatkan kemampuan berbicara bahasa Inggris, terutama dalam aspek vocabulary, grammar, pronunciation, dan comprehension. Duolingo, dengan pendekatan gamifikasi dan tugas interaktif, membantu memperkaya kosa kata (vocabulary) dan pemahaman (comprehension), meskipun memberikan sedikit umpan balik tentang pengucapan dan tata bahasa (grammar). ELSA Speak, yang menggunakan teknologi pengenalan suara canggih, sangat efektif dalam memperbaiki pengucapan (pronunciation) dengan umpan balik real-time, namun kurang mendalam dalam mengembangkan aspek grammar dan vocabulary. Rosetta Stone, dengan teknologi Dynamic Immersion dan TruAccent, menyediakan pengalaman belajar yang komprehensif, membantu meningkatkan pengucapan (pronunciation), tata bahasa (grammar), dan kosa kata (vocabulary). Penelitian ini menunjukkan bahwa kombinasi ketiga platform ini menawarkan pendekatan holistik untuk meningkatkan kemampuan berbicara bahasa Inggris, dengan memanfaatkan keunggulan masing-masing dalam berbagai aspek bahasa, untuk mencapai percakapan yang lebih percaya diri dan lancar. Selain itu, penelitian ini menyoroti potensi AI untuk merubah pengajaran bahasa dan memperbaiki komunikasi internasional.



## ACKNOWLEDGEMENT

بسم الله الرحمن الرحيم. الحمد لله رب العالمين. الصلاة والسلام على اشرف الأنبياء والمرسلين سيدنا  
ومولانا محمد وعلى آله وصحبه أجمعين. اما بعد.

Praise to Allah the Almighty who has been giving me guidance till the writer finished this thesis entitled “An Analysis of Artificial Intelligence of Powered Tools on English Speaking Practice”. Peace and salutation always be upon Prophet Muhammad P.B.U.H and all his friends who struggle for Allah. The writer like to express appreciation and gratitude to:

1. Dr. H. Hamdan, M.Pd as the Dean of Faculty of Tarbiyah and Teacher Training of Antasari State Islamic University and all his staff for their help in the Administrative matters.
2. Afifah Linda Sari, S.S, M.Pd, as the Head of English Education Department for the assistance and motivation.
3. My academic advisor, Drs. Sa’adillah, M.Pd, for the guidance and encouragement.
4. My thesis advisors, Hidayah Nor, M.Pd., as the advisor of content and research methods for the advice, helps, suggestion and correction.
5. All lecturers and assistants in Faculty of Tarbiyah and Teacher Training for the priceless knowledge.

Finally, the writer hopes that this research will be useful for the next researchers. The writer admits that this research paper is not perfect yet. Therefore, suggestion will be expected to make it better.

Banjarmasin, Jumaidil Awal, 13th 1446 A.H  
November, 15th, 2024 A.D

Writer

## CONTENTS

<b>TITLE PAGE</b> .....	<b>i</b>
<b>STATEMENT OF AUTHENTICITY</b> .....	<b>ii</b>
<b>PLAGIARISM CERTIFICATE</b> .....	<b>iii</b>
<b>APPROVAL</b> .....	<b>iv</b>
<b>VALIDATION</b> .....	<b>v</b>
<b>ABSTRACT</b> .....	<b>vi</b>
<b>ABSTRAK</b> .....	<b>vii</b>
<b>ACKNOWLEDGEMENT</b> .....	<b>viii</b>
<b>CONTENTS</b> .....	<b>x</b>
<b>LIST OF FIGURES</b> .....	<b>xii</b>
<b>LIST OF APPENDICES</b> .....	<b>xiv</b>
<b>CHAPTER I</b> .....	<b>1</b>
<b>INTRODUCTION</b> .....	<b>1</b>
A. Background of Study .....	1
B. Definition of Key Terms .....	5
C. Research Questions .....	6
D. Objectives of Study .....	6
E. Significance of Study .....	6
<b>CHAPTER II</b> .....	<b>8</b>
<b>THEORETICAL REVIEW</b> .....	<b>8</b>
A. Definition of Artificial Intelligence .....	8
C. Review of Previous Study .....	19
<b>CHAPTER III</b> .....	<b>21</b>
<b>RESEARCH METHOD</b> .....	<b>21</b>
A. Research Design.....	21
B. Object .....	23
C. Data .....	23
D. Technique of Data Collection .....	24
E. Data Analysis .....	24

<b>CHAPTER IV</b> .....	<b>28</b>
<b>FINDINGS AND DISCUSSION</b> .....	<b>28</b>
A. Findings.....	28
B. Discussion .....	67
<b>CHAPTER V</b> .....	<b>70</b>
<b>CLOSURE</b> .....	<b>70</b>
A. Conclusion .....	70
B. Suggestions .....	71
<b>REFERENCES</b> .....	<b>73</b>
<b>APPENDICES</b> .....	<b>75</b>
<b>CURRICULUM VITAE</b> .....	<b>79</b>

## LIST OF FIGURES

Figure 4.1 Duolingo Speaking Exercises .....	30
Figure 4.2 Duolingo Speaking Exercises .....	30
Figure 4.3 Duolingo Speaking Exercises .....	31
Figure 4.4 Duolingo Speaking Exercises .....	31
Figure 4.5 Duolingo Podcast.....	32
Figure 4.6 Pronunciation Practice .....	34
Figure 4.7 Phonetics Sound Practice.....	35
Figure 4.8 Pronunciation Practice .....	36
Figure 4.9 Duolingo Real-Time Feedback.....	38
Figure 4.10 Duolingo Feedback On User Mistake .....	39
Figure 4.11 Elsa Speak Personalized Learning.....	42
Figure 4.12 Elsa Speak Personalized Learning.....	43
Figure 4.13 Elsa Speak Personalized Learning.....	44
Figure 4.14 Elsa Speak Personalized Learning.....	44
Figure 4.15 Elsa Speak Personalized Learning.....	45
Figure 4.16 Elsa Speak Personalized Learning.....	46
Figure 4.17 Pronunciation Training Using Video.....	48
Figure 4.18 Elsa Speak's Pronunciation Training .....	49
Figure 4.19 Elsa Speak's Pronunciation Training .....	50

Figure 4.20 Elsa Speak's Real-Time Feedback .....	52
Figure 4.21 Elsa Speak's Feedback On User Exercises .....	53
Figure 4.22 Elsa Speak's Real-Time Feedback .....	54
Figure 4.23 Rosetta Stone Dynamic Immersion .....	56
Figure 4.24 Rosseta Stone Dynamic Immersion .....	58
Figure 4.25 Rosseta Stone Truaccent Speech Recognition.....	60
Figure 4.26 Rosetta Stone Truaccent Speech Recognition .....	61
Figure 4.27 Rosetta Stone Personalized Learning Path .....	63
Figure 4.28 Rosetta Stone Personalized Learning Path .....	64

## **LIST OF APPENDICES**

Translation Of Al-Qur'an Verse .....	75
Certificate of Proposal Seminar .....	76
Certificate of Komprehensif .....	77
Thesis Consultation Notes .....	78
Curriculum Vitae.....	79