

A Web Based Chatbot for Mental Health Support

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**Being a MSc Post-Feild Presentation Submitted to the Department of Computer Science,
Faculty of Natural and Applied Sciences, Lead City University, Ibadan, Oyo State, Nigeria**

**In Partial Fulfilment of the Requirement for the Award of Master of Science (MSc)
Degree in Computer Science**

2023

Certification

This is to certify that Samuel Ejomafuvwe LUCKY with matriculation number LCU/PG/002201 carried out this research work titled “Personalized Treatment Using Chatbot for Mental Health Support” in the Department of Computer Science, Faculty of Natural and Applied Sciences, Lead City University, Ibadan, Oyo State, for the award of Master of Science (MSc) in Computer Science and that this has not been previously submitted.

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Dedication

This research work is dedicated to God, my parents, and my siblings.

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Acknowledgements

Foremost, I would like to express my gratitude to the leadership of the Lead City University, Ibadan for creating a medium for us to acquire knowledge for self-reliance.

I acknowledge my supervisor Prof. Akinola, for the continuous support for M.Sc study and research, for his motivation, enthusiasm, to guide me through the research. The immense knowledge and plentiful experience have encouraged me in all the time of my academic research and daily life. Besides my supervisor, my sincere thanks go to the Head of Department Dr. Wilson Sakpere, the Postgraduate Coordinator Dr. Azeez Waheed, all other lecturers and staff members in the department of computer science for their guidance encouragement, and insightful comments.

I thank my fellow coursemates, Mr. Abiodun Akanni, Mr. Segun Sofoluwe, Miss. Iyanuoluwa Fatoki, Mr. Jimmy Lawal, Mr. Folahan Jiboku and others numerous to mention.

I thank my parents Mr. Aphienta Lucky and Mrs. Roseline Lucky for their guidance, parental advice and commitment instilled in me towards learning. May you both live long in good health to enjoy and the reap fruits of your labour. My sincere thanks to my friends and loved ones for the understanding, sacrifice, and prayers during my study. Also, to my siblings Mr. Meshack Lucky, Mr. David Lucky, Mr. Daniel Lucky, Mr. Japheth Lucky and Mr. Ovie Lucky for their continuous support and advice.

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List of Acronyms

| | |
|-------|---|
| AI- | Artificial Intelligence |
| ASR- | Automated Speech Recognition |
| CBT- | Cognitive Behavioural Therapy |
| DCM-5 | Diagnostic and Statistical Manual of Mental Disorders |
| DL- | Deep Learning |
| ICS- | International Classification of Diseases |
| LSA- | Latent Semantic Analysis |
| LSTM- | Long Short-Term Memory |
| ML- | Machine Learning |
| MLP- | Multi-Layer Perceptron |
| NLP- | Natural Language Processing |
| NLU- | Natural language understanding |
| NN- | Neural Network |
| RL- | Reinforcement Learning |
| RNN- | Recurrent Neural Networks |
| SVD- | Singular Value Decomposition |
| TTS- | Text-To-Speech |
| WHO- | World Health Organisation |