



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

# AVA: THE ARTIFICIAL INTELLIGENCE (AI) DIGITAL ASSISTANT

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A Capstone Project

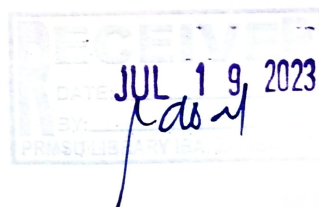
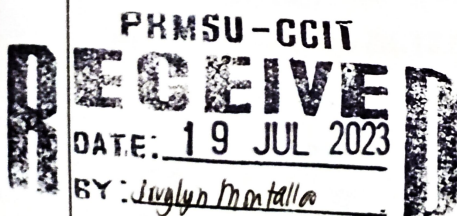
In partial Fulfillment of the Requirements

for the degree of Bachelor of Science in Information Technology

College of Communication and Information Technology

President Ramon Magsaysay State University

Iba, Zambales



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COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY



Republic of the Philippines  
**President Ramon Magsaysay State University**  
Iba, Zambales



**College of Communication and Information Technology**

**APPROVAL SHEET**

This study entitled **“AVA: THE ARTIFICIAL INTELLIGENCE (AI) DIGITAL ASSISTANT”** prepared and submitted by Edrielle Mae Y. Cunanan, Gerry Mel M. Mapa, Rose Ann R. Arga, and Ronel M. Montero in partial fulfilment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** are hereby recommended for oral examination.

  
**ENGR. MELOJEAN C. MARAVE**  
Adviser

Approved by the Panel of the Oral Examiners on February 2023 with a grade of \_\_\_\_\_.

  
**DARWIN M. MORAÑA**  
Chairperson

  
**ROWELA GONGORA**  
Member

  
**HANSEL S. ADA, MSCS**  
Member

Accepted and approved in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY.**

10 JUL 2023  
Date Signed

  
**MENCHIE A. DELA CRUZ, PhD**  
Dean, CCIT





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### EXECUTIVE SUMMARY

The main purpose of this study is to develop and design an artificial intelligence digital assistant for the students that aims to automate task virtually through a voice command. The researchers should be able to reduce human effort and time spent on activity by giving effective solutions for the existing problem.

The Input-Process-Output (IPO) framework was used to illustrate the concepts behind the development of the AVA: The Artificial Intelligence (AI) Digital Assistant. In addition, the methodology used was Agile Methodology as it utilizes small but incremental changes between releases that help researchers to address small issues as they arise rather than missing them until later, more complex stages of a project. Lastly, the statistical tools used in the interpretation of data are the Cochran formula to calculate an ideal sample size, the frequency and percentage distribution to determine the frequency counts and percentage distribution of personal related variables of the respondents, the weighted mean to determine the average of the evaluation of the respondents, and the Likert scale to allow the individual express how much they agree or disagree with a particular statement.

This study examines the productivity of students while using the digital assistant especially in College of Communication and Information Technology, President Ramon Magsaysay State University, Iba, Zambales. The results and observations found that students seemed to be more engaged in utilizing technology than studying, also there are some issues regarding the existing digital assistants. Several problems have been identified and these issues have to be solved in order to sustain the productivity of student while using technology in education.



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Based on the summary of findings of the study stated above, the following conclusions will draw. The respondents evaluated the Software Quality of “AVA: The Artificial Intelligence (AI) Digital Assistant” using ISO/IEC 25010: 2011 metrics as Fair. The respondents evaluated the Level of Acceptability of “AVA: The Artificial Intelligence (AI) Digital Assistant” using ISO/IEC 25010: 2011 metrics as Slightly Accepted. The respondents also evaluated the Level of Readiness of “AVA: The Artificial Intelligence (AI) Digital Assistant” using ISO/IEC 25010: 2011 metrics as Slightly Accepted. The result of this project states that this study is fair rated and evaluated by the 4th year students of Bachelor of Science in Information Technology.