



**JOB LANDING FOR EMPLOYABILITY OF COLLEGE GRADUATES USING
DECISION TREE ALGORITHM**

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Echon, Jannah Patricia B.
Maniago, Ronalyn P.**

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A Thesis

**In partial Fulfillment of the Requirements
for the degree of Bachelor of Science in Computer Science
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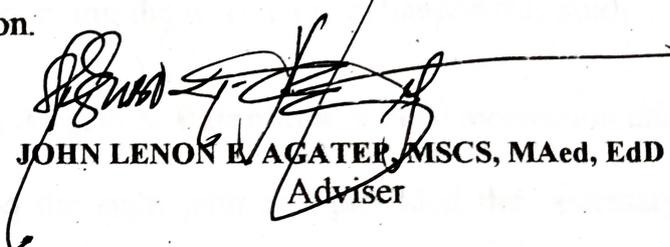


Republic of the Philippines
PRESIDENT RAMON MAGSAYSAY STATE UNIVERSITY
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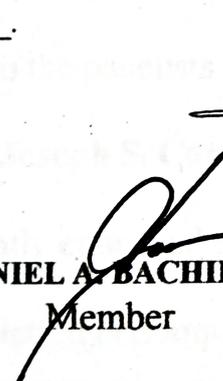
APPROVAL SHEET

This, study entitled “**Job Landing for Employability of College Graduates Using Decision Tree Algorithm**” prepared and submitted by **Mary Joy Asis, Alexandra Bernal, Jannah Patricia Echon, Ronalyn Maniago** in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** are hereby recommended for oral examination.


CARL ANGELO S. PAMPLONA, MSCS
Thesis Instructor


JOHN LENON E. AGATER, MSCS, MAed, EdD
Adviser

Approved by the Panel of the Oral Examiners on June 10, 2024 with a grade of _____


DANIEL A. BACHILLAR, MSCS
Member

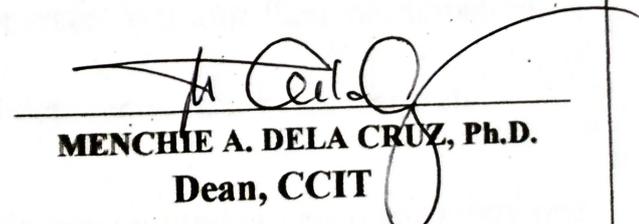

ISRAEL M. CABASUG, MSCS
Chairman


JOSEPH S. CORTEZ
Member

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

06 AUG 2024

Date Signed


MENCHIE A. DELA CRUZ, Ph.D.
Dean, CCIT



EXECUTIVE SUMMARY

This research focuses on using decision tree algorithms to enhance job landing for college graduates, specifically at PRMSU Iba Campus. The web-based approach aims to recommend suitable career opportunities by assessing individual profiles, providing user-friendly and effective job search guidance. The study's objectives include evaluating the effectiveness of the web development, assessing the acceptability of the job landing system, and addressing key questions related to graduates' profiles and decision tree algorithm application.

The scope is limited to PRMSU Iba Campus graduates, considering students' interests, experiences, and job opportunities in the Philippines. The methodology involves Agile development and data flow analysis. The conceptual framework emphasizes effectiveness levels and acceptability, while the system architecture involves web, application, and database servers. Aims to contribute valuable insights for both job seekers and educational institutions striving to improve graduate employability.

The researchers used trained model to assess the accuracy, precision, recall, and f1-score of the system. The result indicates excellent classification performance, with an accuracy of 91%, precision of 92%, recall of 94%, and f1-score of 92%. The researchers used questionnaires to assess the Level of Acceptability, interpreting the data using a Likert scale and weighted mean. Respondents rated the system as "Excellent" with grand mean of 3.37 and 3.57, with variations in assessments of functionality and performance. Overall, these results demonstrate the system reliability and effectiveness.