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COLLEGE OF COMPUTING AND INFORMATION SCIENCES

Research Title

by

Student Name

$2022/HD--/-----U$

Email

Department of Computer Science

School of Computing & Informatics Technology

A Research Proposal Submitted to the Directorate of Research and Graduate Training in Partial Fulfilment of the Requirements for the Award of the Degree of Master of Science in Computer Science of Makerere University

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List of Tables

List of Abbreviations

AI   Artificial Intelligence

ML   Machine Learning

1 Introduction

1.1 Background

Money laundering is a [1] [2]

1.2 Problem Statement

1.3 Objectives of the Study

1.3.1 Main Objective

The main objective of the study is....

1.3.2 Specific Objectives

This research will especially

  (i) Identify properties....

 (ii) Design and implement....

(iii) Evaluate and validate....

1.4 Significance of the Study

2 Literature Review

This section discusses.....

This subsection discusses some of the machine learning techniques.......

Xuan et al. [3]...

2.1 Neural Networks

Ebenezer et al. [4]...

The state of art [5].....

3 Methodology

This section discusses the data, and some of the machine learning models that shall be....

3.1 Mapping of Specific Objectives to Method

This subsection provides a summary of the mapping of specific objectives of the research study to the methods that will be used.

Specific Objective	Method

Table 1: Summary of specific objectives mapped to methods.

References

[1] G. Ali, M. Ally Dida, and A. Elikana Sam, "Evaluation of key security issues associated with mobile money systems in uganda," *Information*, vol. 11, no. 6, p. 309, 2020.

[2] D. Azamuke, M. Katarahweire, and E. Bainomugisha, "Scenario-based synthetic dataset generation for mobile money transactions," in *Proceedings of the Federated Africa and Middle East Conference on Software Engineering*, 2022, pp. 64–72.

[3] S. Xuan, G. Liu, Z. Li, L. Zheng, S. Wang, and C. Jiang, "Random forest for credit card fraud detection," in *2018 IEEE 15th international conference on networking, sensing and control (ICNSC)*. IEEE, 2018, pp. 1–6.

[4] E. Esenogho, I. D. Mienye, T. G. Swart, K. Aruleba, and G. Obaido, "A neural network ensemble with feature engineering for improved credit card fraud detection," *IEEE Access*, vol. 10, pp. 16 400–16 407, 2022.

[5] *UCC issues advisory on fraudsters*, UCC, 03 2022. [Online]. Available: https://www.upf.go.ug/ucc-advisory-on-bafere/

Appendices

Appendix A   : Work Plan

SNo	Activity	Timeline (2023)
1	Activity 1	Oct - Dec
2	Activity 2	
3	Activity 3	
4	Activity 4	

Table 2: Summary of the work plan.