

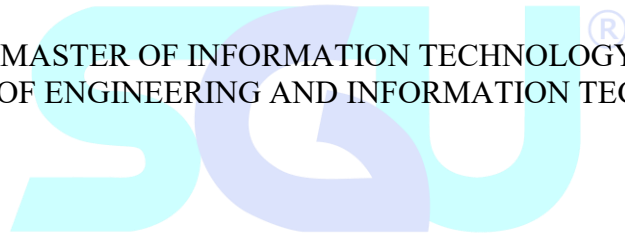
**ENHANCING DATA PROTECTION IN BANKING: IMPLEMENTATION
AND EVALUATION OF AN AI-DRIVEN SYSTEM**

By

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FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY



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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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This research aims to implement an AI-driven system for managing Records of Processing Activities (RoPA) and Data Protection Impact Assessments (DPIA) at Bank XYZ to comply with Indonesia's Personal Data Protection Law (PDPL). The research uses a qualitative approach, incorporating case studies and interviews to investigate the AI system's impact on improving compliance, efficiency, and data security within the banking sector. Initial results show significant improvements in the accuracy and speed of processing personal data protection documents. The AI system simplifies the management of RoPA and DPIA and promotes a robust compliance environment by adhering to national and international data protection standards. It is recommended to continually advance AI and provide ongoing training to address emerging data security and privacy challenges.

Keywords: Artificial Intelligence (AI), Data Protection, Record of Processing Activities (RoPA), Data Protection Impact Assessment (DPIA), Personal Data Protection Law (UU PDP), Compliance, Machine Learning (ML), Natural Language Processing (NLP), Data Management Automation, Banking Sector, Regulatory Compliance, Data Security, Operational Efficiency, Risk Mitigation.



DEDICATION

I dedicate this works for the future of the country I loved: Indonesia



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I have found my coursework throughout the Curriculum and Instruction program to be stimulating and thoughtful, providing me with the tools with which to explore both past and present ideas and issues.

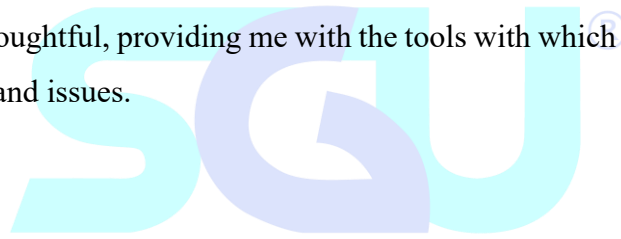


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