**AN ENHANCE MODEL FOR CREDIT CARD FRAUD DETECTION IN BANKS**

**SUBMITTED TO**

**THE DEPARTMENT OF COMPUTER SCIENCE**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**THE GATEWAY (ICT) POLYTECHNIC SAAPADE, OGUN STATE.**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENT AWARD OF NATIONAL DIPLOMA (ND) IN THE DEPARTMENT OF COMPUTER SCIENCE.**

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**CERTIFICATION**

This is to certify that this project report titled **AN ENHANCE MODEL FOR CREDIT CARD FRAUD DETECTION IN BANKS** is an authentic and original work completed by the AJIBOLA ISSAC OLUWASEUN in partial fulfillment of the requirements for NATIONAL DIPLOMA (ND) IN THE DEPARTMENT OF COMPUTER SCIENCE. The project report has been prepared under the guidance of MR. OYEKUNLEat GATEWAY (ICT) POLYTECHNIC SAAPADE, OGUN STATE.

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**DEDICATION**

I humbly dedicate this project report to GOD Almighty for seeing ME through my project, and to brother for his support and encouragement.

I dedicate this project report to all the individuals who have supported and inspired me throughout this journey. Without their guidance, encouragement, and unwavering belief in our abilities, this project would not have been possible.

I would like to express our deepest gratitude to my supervisor. His expertise, patience, and valuable insights have been instrumental in shaping this project. Her constant support and guidance have motivated me to push my boundaries and strive for excellence.

I would also like to acknowledge the support of my parents, whose love, understanding, and encouragement have been my pillars of strength. Their sacrifices and belief in my potential have motivated me to reach higher and work harder. I am grateful for their constant encouragement and for always being there for me, no matter the circumstances.

In conclusion, I dedicate this project report to all those who have been a part of my journey, directly or indirectly. Your support, encouragement, and belief in us have been invaluable. This project stands as a testament to our collective efforts and serves as a reminder of what can be achieved when we come together with a shared vision. Thank you all for being an integral part of my growth and for inspiring me to pursue excellence.

**ACKNOWLEDGEMENTS**

I would like to express my sincere appreciation to the Almighty God and my parents for their valuable support, guidance, and contributions throughout the development of this project.

I would like to extend my heartfelt gratitude to MR. OYEKUNLEfor her unwavering support, invaluable insights, and expert guidance throughout the entire duration of this project. Her mentorship and expertise have been instrumental in shaping the direction and outcomes of this work.

Finally, I would like to acknowledge the unwavering support, encouragement, and patience of my friends and families. There constant belief in us and their understanding during the ups and downs of this project have been a source of strength and inspiration.

**ABSTRACT**

Fraud detection and prevention is one of the most crucial aspects of the retail industry. Product returns presents one of the major challenges in present day retail, and as e-tailing continues to grow towards becoming the most popular consumer option to purchase goods, fraud methods are becoming more sophisticated. Retailers use their flexibility in return policy as one of the major tools towards attracting and pleasing the consumer, but this often poses the issue of return fraud largely affecting profits. As flexible return policies and customer satisfaction are highly correlated, it is important to determine a way that guarantees that losses are not incurred due to high number of fraudulent returns. This problem continues to pose a concern both strategically and economically, and accordingly, the investment of time and resources into developing a model that accounts for factors that identify fraudulent transactions could be crucial in the process of balancing between customer satisfaction and maximization of profits. In this era where technology is dominating, machine learning and big data provide the tools necessary to manage such challenges. Many studies have proposed methods to detect fraud through supervised machine learning models, and while that performs well, the lack of fraud-labeled data in the retail industry makes it difficult to develop a supervised learning model.

**KEYWORDS**

**ACQUIRING SANK**: This is a bank or financial institution that accepts payments for the product or services on behalf of a Merchant.:

**COMPUTER**: This is an electro-mechanical device that is capable of accepting data as inputs, stores it, processes the data and outputs it as result or information.

**CREDIT CARD**: It is a payment mechanism that enables consumers to make their online purchase.

**DATA**: Data are raw facts which undergo processing and become information. They are also the simplest unit of information that can stand on its own.

**DIGITAL CERTIFICATE**: It is a certificate that enables a merchant to do on-line business and it is been issued by a corporate body.

**GATEWAY**: This is a device that connects two computer networks that cannot be connected in any other way.

**HYPERTEXT DOCUMENTS**: They are documents written with HTML, ASP, ASP.NET, PHP, JAVA SCRIPT PAGES (JSP), CODE FUSION, and PROGRAMMING LANGUAGES.

**INTERNET**: It is an interaction of computer networks connecting other networks from computers, companies, houses etc. ISP: (Internet Service Provider): This is a company(s) that provides internet access to homes or business users.

**MERCHANT ACCOUNT**: It’s a contract under which an acquiring bank extends a line of credit to a merchant who wishes to accept payment card association brand

**MY SQL:** This is relational database server that is ideal for both small and large applications.

ON-LINE BOOKSHOP: It is representation of material or real bookshop on the internet or on the web.

**PHP (HYPERTEXT PRE-PROCESSOR):** This is a powerful server side scripting language for creating dynamic and interactive website.

**WWW** (World Wide Web): It is a multimedia interface that connects us to resources such as documents, e-mails, chat, web sites that are available on the internet with the computer.

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