**PROJECT REPORT**

**ON**

“A Study on Credit Card Fraud Detection using Machine Learning Algorithm”

*Submitted to*

*Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur*

*For the award of degree of*

*Master of Business Administration*

*Course specialization in*

***Business Analytics***

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**2022-24**

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**CERTIFICATE**

This is to certify that the project report titled “A Study on Credit Card Fraud Detection using Machine Learning Algorithm” is a bonafide work of **Kashyap Pundlik Kolhe** student of MBA (Second Year), NIT Graduate School of Management (Academic Session 2022-24). This report is being submitted in partial fulfillment of requirement for the course of Post Graduate Degree of Masters of Business Administration (MBA) of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

**Prof Nilesh Yemde Dr Mukesh Patil**

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**APPROVAL OF PROJECT PROPOSAL**

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**DECLARATION**

I **Kashyap Pundlik Kolhe** hereby declare that the project report titled, “**A study on Credit Card Fraud Detection using Machine Learning Algorithm**” for the period 2022-24. which is being submitted by me in partial fulfillment of requirement for the Degree of Master of Business Administration of Rashtrasant Tukadoji Maharaj Nagpur University, is a bonafide record of work exclusively carried out by me. It is the result of my genuine efforts and the same has not been previously submitted towards requirements of any course or examination of this or any other university. The sources of material and information used in this research study has been duly acknowledged and certified. I hereby further confirm that this project truly represents the bonafide work undertaken by me and is the outcome of thorough and systematic research.

**Kashyap Pundlik Kolhe**

**ACKNOWLEDGEMENT**

Blessing, guidance, cooperation and support are always needed to accomplish any task and at the same time faith, endeavor and dedication are also required for gaining knowledge.

I am indebted to **Dr. Mukesh Patil**, Director, NIT GSM**,** who has been a source of inspiration through her constant guidance, personal interest, encouragement and help.

I have a great pleasure to put my deep sense of gratitude to Prof. Nilesh Yemde, Project Guide, for his able guidance throughout this project, who had been a constant source of inspiration and under whose dynamic guidance, I have been able to complete my project.

I am highly indebted and obliged to Prof. Nilesh Yemde, for extending his untiring guidance to me, by constantly discussing the project matter and helping me in clarifying my thinking in several pertinent issues and providing a meaning full insight into the subject. In spite of his busy schedule, he has always found time to guide me through this research work, reposing confidence in my abilities and giving me the freedom to work on my project work.

I am highly obliged to my parents for their personal care and inspiration that has placed me to work on this project.

I would be failing in my duty if I omit to thank the Staff of Organization without whose cooperation, my project would remain an incomplete assignment.

**Kashyap Pundlik Kolhe**

**PREFACE**

In an era where digital transactions are ubiquitous, ensuring the security of financial transactions is paramount. As the prevalence of credit card usage grows, so too does the risk of fraudulent activities. Addressing this challenge requires sophisticated methods of detection and prevention, leveraging advanced technologies and analytical techniques.

This project delves into the realm of credit card fraud detection, aiming to develop effective strategies to identify and mitigate fraudulent transactions. By harnessing the power of data science, machine learning, and statistical analysis, we endeavor to create a robust system capable of accurately flagging suspicious activities in real-time.

This report documents our journey through the intricacies of credit card fraud detection, from understanding the underlying concepts to implementing practical solutions. We explore various methodologies, algorithms, and approaches, assessing their effectiveness and feasibility in real-world scenarios. Furthermore, we discuss the ethical considerations and implications associated with fraud detection systems, emphasizing the importance of balancing security with user privacy.

Our hope is that this project and its accompanying report serve as a valuable resource for researchers, practitioners, and stakeholders interested in combatting credit card fraud. By sharing our insights, methodologies, and findings, we aim to contribute to the ongoing efforts to safeguard financial transactions and protect consumers from fraudulent activities.

We extend our gratitude to all those who have supported and guided us throughout this endeavor, and we look forward to the continued advancement of fraud detection technologies for the betterment of society.

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