COMPREHENSIVE ANALYSIS FOR FRAUD DETECTION OF CREDIT CARD THROUGH MACHINE LEARNING

A Project Report

Submitted by

ABAKA CHARANSAI	**112818104002**
ANDALAMALA SHABARISH	**112818104004**

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

T.J.S. ENGINEERING COLLEGE , PERUVOYAL

ANNA UNIVERSITY: CHENNAI 600 025

JUNE 2022

T.J.S. ENGINEERING COLLEGE T.J.S.E.C. PERUVOYAL KAVARAIPETTAI

PRINCIPAL
T.J.S. ENGINEERING COLLEGE
Peruvoyal, Kavaraipettai,
Gummidipoondi Taluk,
Thiruvallur Dist - 601 206.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certificate that this project report **"COMPREHENSIVE ANALYSIS FOR FRAUD DETECTION OF CREDIT CARD THROUGH MACHINE"** is the bonafide work of the following students.

ABAKA CHARANSAI	**112818104002**
ANDALAMALA SHABARISH	**112818104004**

Who carried out the project work under my supervision.

SIGNATURE

Dr.S.Anbu,M.E.,Ph.D.,
HEAD OF THE DEPARTMENT
Department of Computer Science and Engineering,
T.J.S Engineering college,
Peruvoyal.

SIGNATURE

Mrs.J.Agnes,M.E.,AP (CSE)
SUPERVISOR
Department of Computer Science and Engineering,
T.J.S. Engineering college,
Peruvoyal.

Submitted for viva voice held on _____ at T.J.S. Engineering College, Peruvoyal.

INTERNAL EXAMINER

T.J.S. ENGINEERING COLLEGE

PRINCIPAL
T.J.S. ENGINEERING COLLEGE
Peruvoyal, Kavaraipettai,
Gummidipoondi Taluk,
Thiruvallur Dist - 601 206.

EXTERNAL EXAMINER

22/6/21

ABSTRACT

In this paper we mainly focus on credit card fraud detection in real world. Here the credit card fraud detection is based on fraudulent transactions. Generally credit card fraud activities can happen in both online and offline. But in today's world online fraud transaction activities are increasing day by day. So in order to find the online fraud transactions various methods have been used in existing system. In proposed system we use Random Forest Algorithm (RFA) for finding the fraudulent transactions and the accuracy of those transactions. This algorithm is based on supervised learning algorithm where it uses decision trees for classification of the dataset. After classification of dataset a confusion matrix is obtained. The performance of Random Forest Algorithm is evaluated based on the confusion matrix.

PRINCIPAL
T.J.S. ENGINEERING COLLEGE
Peruvoyal, Kavaraipettai,
Gummidipoondi Taluk,
Thiruvallur Dist - 601 206.