SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

S614PT1 - PROFESSIONAL TRAINING-I

FIRST REVIEW

Date: 24.09.2024 **Batch:** 2022-2026 **Program:** BE-CSE **Specialization:** Data Science

Predictive Modeling for Credit Card Fraud Detection

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ABSTRACT:

The Credit Card Fraud Detection System (SCCFD) represents a practical effort to address the fraudulent behaviors surrounding the credit card transactions in an efficient way. Utilizing a dataset available on the Kaggle repository, the system implements a Logistic Regression model that helps classify transactions in the efficient way; this model helps in minimizing losses that had occurred before, in addition to increasing the security of payment systems. This very system has a great counterbank role in the occurrence of this type of fraud by addressing an exciting issue for banks, financial institutions, and e-commerce websites detecting suspicious users' activities. It provides essential features for these nominated transactions such as easy provision for input of transactions description, protection of data, and the ability for quick viewing of prediction outcome. CCFDS also analyzes a dataset which has attributes such as transaction amount, transaction time, and other anonymized information, and combines this with the use of machine learning to achieve efficient fraud detection that happens in minutes. Owing to the capacity to predict trends, organizations are able to take measures to prevent fraudulent activities which in turn preserves the valuables of users and promotes confidence towards digital platforms.

Keywords:

Credit Card Fraud Detection, Logistic Regression, Real-Time Fraud Detection, Financial Security, Machine Learning, Data-Driven Insights, Anonymized Transaction Data, Secure Payment Systems, User-Friendly

Signature of Reviewer   **Signature of Guide**