FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)

Hormis Nagar, Mookkannoor PO, Angamaly, Kochi

Accredited by NAAC with 'A+' Grade

DEPARTMENT OF COMPUTER APPLICATIONS

SYNOPSIS OF THE MAIN PROJECT

Name of the Student	DAZZLE VINCENT
Batch & Roll Number	A Batch 43
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Name of Project Guide	Ms.Joice T
GitHub ID	https://github.com/dazzlevincent
Project Title	Credit Card Fraud Detection Using LSTM
Area of the Project	Machine Learning
Date of Submission	31/01/2025

Description of Project:

Credit card fraud detection using LSTM Autoencoders, XGBoost, and Random Forest identifies fraudulent transactions by analyzing patterns and anomalies. LSTM Autoencoders learn normal transaction behaviors and flag deviations as potential fraud. XGBoost efficiently classifies transactions, handling imbalanced data, while Random Forest enhances accuracy with multiple decision trees. This hybrid approach improves fraud detection, minimizes false positives, and strengthens payment security.

Front End & Back End Tools	PYQT & Python