

## Project Initialization and Planning Phase

Date	27 April 2024
Team ID	Team-738315
Project Title	Online Payment Fraud Detection using Machine Learning
Maximum Marks	3 Marks

### Data Collection Plan & Raw Data Sources Identification Report :

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavour .

#### Data Collection Plan:

Section	Description
Project Overview	The machine learning project aims to predict Fraud Detection based on transaction details. Using a dataset with features such as Transaction Amount, Transaction Time, Transaction Type, Card Type, Merchant information ,Transaction History, the objective is to develop a machine learning model capable of accurately detecting fraudulent online payment transactions to enhance security and minimize financial losses for businesses facilitating efficient and informed decision-making in the lending process.
Data Collection Plan	<ul style="list-style-type: none"> <li>● Identify sources, collect transactional and user data, ensure compliance, validate quality, secure storage, and monitor for continuous improvement.</li> <li>● Source transactional data from payment processors, financial institutions, and e-commerce platforms, ensuring compliance with data privacy regulations and quality assurance.</li> </ul>

Raw Data Sources Identified	Raw data sources for online payment fraud detection include transaction records from payment processors, user profiles from e-commerce platforms, IP addresses, device information, and historical fraud data from financial institutions and fraud detection platforms.
-----------------------------	--

### Raw Data Sources Report:

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle Dataset	step: represents a unit of time where 1 step equals 1 hour type: type of online transaction amount: the amount of the transaction nameOrig: customer starting the transaction oldbalanceOrg: balance before the transaction newbalanceOrig: balance after the transaction nameDest: recipient of the transaction oldbalanceDest: initial balance of recipient before the transaction newbalanceDest: the new balance of recipient after the transaction isFraud: fraud transaction	<a href="https://www.kaggle.com/datasets/rupakroy/online-payments-fraud-detection-dataset">https://www.kaggle.com/datasets/rupakroy/online-payments-fraud-detection-dataset</a>	CSV	470 MB	Public
UCI	This research aimed at the case of customers' default payments in Taiwan and compares the predictive accuracy of probability of default among six data mining methods.	<a href="https://archive.ics.uci.edu/dataset/350/default-of-credit-card+clients">https://archive.ics.uci.edu/dataset/350/default-of-credit-card+clients</a>	CSV	5.28 MB	Public