

Model Development Phase Template

Date	10 June 2024
Team ID	739643
Project Title	Online Payment Fraud Detection
Maximum Marks	5 Marks

Feature Selection Report Template

This report provides an overview of the feature selection process for the [Project Name]. The goal of feature selection is to identify the most relevant and impactful features that contribute to the model's performance.

Feature	Description	Selected (Yes/No)	Reasoning
Transaction Amount	The amount of money involved in the transaction.	Yes	Large or unusual amounts can indicate potential fraud.
Transaction Type	The type of transaction (e.g., purchase, transfer).	Yes	Certain types of transactions are more prone to fraud.
Time of Transaction	The time when the transaction occurred.	Yes	Transactions at odd hours can be suspicious.
Location	The geographical location of the transaction.	Yes	Transactions from unexpected locations can be a red flag.

Device ID	The unique identifier of the device used for the transaction.	Yes	Unrecognized devices can indicate fraudulent activity.
IP Address	The IP address from which the transaction was initiated	Yes	IP addresses from high-risk regions can be indicative of fraud.
Previous Transactions	The history of previous transactions by the user	Yes	Patterns in transaction history can help identify anomalies.
Merchant Category	The category of the merchant involved in the transaction.	Yes	Some merchant categories are more susceptible to fraud.
User Behavior	Patterns in the user's behavior, such as frequency and type of transactions	Yes	Deviations from normal behavior can signal fraud.
Payment Method	The method used for payment (e.g., credit card, bank transfer)	Yes	Some payment methods are more secure than others.