

## Model Development Phase Template

Date	20 July 2025
Team ID	SWUID20250184320
Project Title	Online Payment Fraud Detection
Maximum Marks	5 Marks

## Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
step	Unit of time (in hours) when the transaction occurred	Yes	Helps track time-based fraud patterns.
Type	Type of transaction (e.g., CASH_OUT, PAYMENT)	Yes	Key feature to identify common fraud-related transaction types
Amount	Key feature to identify common fraud-related transaction types	Yes	Crucial to detect suspicious transaction sizes

NameOrig	Customer identifier	No	High cardinality and anonymized; doesn't contribute to fraud detection
OldbalanceOrg	Original balance before the transaction	Yes	Can help in understanding sudden fund movements
NewbalanceOrig	New balance after the transaction	Yes	Useful for balance tracking post-transaction
nameDest	Merchant/customer receiving the money	No	Anonymized and not very informative directly
oldbalanceDest	Original balance of destination account	Yes	Can signal sudden large deposits or transfers
newbalanceDest	New balance of destination account	Yes	Important for tracking post-transaction anomalies
isFraud	Target variable indicating if transaction is fraudulent	Yes	This is the label we aim to predict
isFlaggedFraud	Indicates if transaction was automatically flagged	Yes	A relevant metadata feature; useful for model evaluation