



Model Development Phase Template

Date	26 September 2024
Team ID	738309
Project Title	Online Payments Fraud Detection Using Machine Learning
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
Transaction Features:	☐ Amount: Dollar amount of the transaction. ☐ Time: Date and time of the transaction. ☐ Location: Merchant location (city, country) where the transaction occurred. (Consider privacy regulations when using this) ☐ Cardholder: Information like billing address or zip code (limited due to privacy). ☐ Merchant: Merchant category (e.g., grocery store, travel agency). ☐ Card Type: Type of credit card used (e.g., Visa, Mastercard).	Yes	These features provide valuable information to the machine learning model for identifying fraudulent activities. Here's a quick recap of each feature:





Frequency:	Number of transactions per day/week/month by the user.	Yes	Analyzing the number of transactions per day/week/month can reveal anomalies. A sudden surge in transactions compared to the user's historical frequency might indicate a fraudulent attempt to exploit a stolen card.
Average Transaction Amount	Typical transaction amount for this user historically.	Yes	Significant deviations from the user's historical average transaction amount could be a sign of fraud. For instance, a series of small transactions followed by a large one might be a tactic used by fraudsters to bypass fraud detection systems that focus on large single transactions.