**Model Development Phase Template**

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| 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.

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| --- | --- | --- | --- |
| **Feature** | **Description** | **(Yes/No)** | **Reasoning** |
| **Transaction Features**: |  **Amount**: Dollar value of the transaction   **Time**: When the transaction occurred   **Location**: City & country (privacy-considerate)   **Cardholder**: Partial billing info (e.g., ZIP)   **Merchant**: Business type (e.g., travel, grocery)   **Card Type**: Credit card brand (e.g., Visa, Mastercard | Yes | These features help the ML model detect fraud. Quick recap: |
| **Frequency:** | Number of transactions per day/week/month by the user. | **Yes** | Tracking transactions daily/weekly/monthly can expose anomalies. A sudden spike vs. usual activity may signal fraud or card misuse |
| **Average Transaction**  **Amount** | Typical transaction amount for this user historically. | **Yes** | Sudden shifts in average spend can hint at fraud—often starting with small buys before a large one to dodge detection systems. |