



Data Collection and Preprocessing Phase

Date	15 March 2024	
Team ID	SWUID20250184320	
Project Title	Online Payments Fraud detection	
Maximum Marks	2 Marks	

Data Quality Report Template

The Data Quality Report Template will summarize data quality issues from the selected source, including severity levels and resolution plans. It will aid in systematically identifying and rectifying data discrepancies.

Data Source	Data Quality Issue	Severity	Resolution Plan
Online Payments Fraud Detection Dataset	Presence of class imbalance (very few fraudulent transactions compared to legitimate ones).	High	Apply resampling techniques like SMOTE (Synthetic Minority Over-sampling Technique) or under sampling to balance the dataset.
Online Payments Fraud Detection Dataset	Missing or null values in some columns.	Moderate	Use pandas .isnull() .sum() to identify missing values. Apply imputation methods like mean/median for numerical features or drop rows.





Online Payments Fraud Detection Dataset	Unnecessary columns like transaction ID or redundant features that don't contribute to prediction.	Low	Drop irrelevant columns using df.drop() after manual inspection or feature importance analysis.
Online Payments Fraud Detection Dataset	Skewed distributions in numerical features.	Moderate	Apply scaling or transformation techniques such as Min-Max Scaling or Log Transformation to normalize distributions.