



Data Collection and Preprocessing Phase

Date	18 June 2025
Team ID	xxxxxx
Project Title	
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
Chronic			
Kidney			
Disease	Missing values in multiple		Use median imputation for
Dataset	columns (e.g., age, bp, rbc,	High	numeric fields, mode for
(400	sod)		categorical fields
records, 26			
attributes)			
	Incorrect data types in	Moderate	Convert using pd.to_numeric(,
	columns like pcv, wc, rc		errors='coerce')





Inconsistent categorical values (e.g., " yes" vs "yes" in dm, htn, cad)	Moderate	Apply .str.strip().str.lower() to standardize categories
Presence of outliers in columns like sc, bgr, bu	Moderate	Detect using IQR method and treat by capping or removing
Irrelevant or non-informative column id	Low	Drop column using df.drop('id', axis=1)
Possible class imbalance in target variable classification	Moderate	Use SMOTE for oversampling or set class weights in models
Categorical variables not encoded for ML	Moderate	Apply Label Encoding or One-Hot Encoding based on model needs