



Data Collection and Preprocessing Phase

Date	9 June 2024
Team ID	SWTID1720112707
Project Title	Anemia Sense: Leveraging Machine Learning For Precise Anemia Recognitions
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
Dataset	Missing values in numerical columns (e.g., Hemoglobin)	Moderate	Fill missing numerical values with the median of the respective columns.
Dataset	Missing values in categorical columns (e.g., Gender)	Low	Fill missing categorical values with the mode of the respective columns.
Dataset	Imbalanced class distribution	High	Apply undersampling to balance the classes, particularly for the 'Result' column





Dataset	Presence of outliers in numerical columns	Moderate	Use statistical methods to identify and treat outliers or apply robust scaling.
Dataset	Mixed data types in some columns	Low	Convert all columns to appropriate data types and handle errors accordingly.
Dataset	Redundant or highly correlated features	Low	Perform correlation analysis and drop or combine redundant features.
Dataset	Infinite values in some columns	Moderate	Replace infinite values with NaN and then handle them with imputation or removal
Dataset	Variability in units of measurement	Moderate	Standardize units of measurement across the dataset using scaling techniques.