

Data Collection and Preprocessing Phase

Date	20 June 2025
Project Title	Rising Waters: A Machine Learning Approach to Flood Prediction
Maximum Marks	2 Marks

Data Quality Report:

The Data Quality Report 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 Quality Report:

Data Source	Data Quality Issue	Severity	Resolution Plan
Kaggle Dataset	Missing values in columns such as Temperature, Humidity, Cloud Cover, Rainfall (seasonal), or Runoff	Moderate	Use mean/median imputation.
Kaggle Dataset	Presence of categorical or mixed-type columns (e.g., possibly mislabeled or region-specific identifiers)	Moderate	Apply appropriate encoding or remove unused categorical columns
Kaggle Dataset	Outliers in continuous variables like Rainfall and Temperature	Moderate	Use IQR-based outlier removal techniques
Kaggle Dataset	Class imbalance between flood and no-flood cases	Moderate	Apply class balancing techniques such as SMOTE or class weights