



## **Data Collection and Preprocessing Phase**

Date	11 March 2025		
Team ID	740052		
Project Title	AI-based Intelligent Insight Extractor		
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.

Component	Insight Extracted	Severity	<b>Resolution Plan</b>
Data Profiler	Categorical features detected	Moderate	Apply encoding: one- hot or label encoding
Document Analyzer	Extracted metadata and manual annotations from project documentation	Low	Integrate document insights into preprocessing workflow
Recommendation Engine	Suggested preprocessing strategy for modeling	High	Auto-generate a pipeline: imputation → encoding → scaling
Insight Visualizer	Highlights severity and transformation impact	Low	Display visual report for analyst review
Automation Engine	Identified repeatable data quality checks	High	Schedule routine data checks with Airflow or similar tools