

Data Collection and Preprocessing Phase

Date	24 July 2025
Team ID	
Project Title	Predicting plant growth stages with environmental and management data using power bi
Maximum Marks	3 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	Mention the issues faced in the selected dataset.	Low/ Moderate / High	Give the solution for that issue technically.
Plant Growth Data Classification, Real-Dataset (Kaggle)	Inconsistent text formatting in categorical columns (Soil_Type, Water_Frequency, Fertilizer_Type)	Moderate	Standardize text values using .str.lower().str.strip() in pandas to remove case and whitespace issues.
Plant Growth Data Classification,	No date or timestamp Columnavailable	Moderate	Add a Date column during data collection to allow time-based analysis and trend



Real-Dataset (Kaggle)			visualization.
Plant Growth Data Classification, Real-Dataset (Kaggle)	Growth_Milestone Columncontains binary values only (e.g., 0 and 1)	Low	Refine milestone tracking method to allow a range of values for better growth trend analysis.
Plant Growth Data Classification, Real-Dataset (Kaggle)	Missing engineered features such as environmental impact scores	Low	Create new derived columns like Env_Index = (Humidity * Temp) / 100 for richer analysis.
Plant Growth Data Classification, Real-Dataset (Kaggle)	Categorical columns not ready for machine learning model input	Low	Apply Label Encoding or One-Hot Encoding to categorical fields during preprocessing.