

## Data Collection and Preprocessing Phase

Date	7 June 2024
Team ID	740048
Project Title	Air Quality Index Analyzer Using ML
Maximum Marks	6 Marks

### Data Exploration and Preprocessing Template

Identifies data sources, assesses quality issues like missing values and duplicates, and implements resolution plans to ensure accurate and reliable analysis.

Section	Description
Data Overview	Basic statistics, dimensions, and structure of the data.
Univariate Analysis	Exploration of individual variables (mean, median, mode, etc.).
Bivariate Analysis	Relationships between two variables (correlation, scatter plots).
Multivariate Analysis	Patterns and relationships involving multiple variables.
Outliers and Anomalies	Identification and treatment of outliers.
<b>Data Preprocessing Code Screenshots</b>	
Loading Data	Code to load the dataset into the preferred environment (e.g., Python, R).

Handling Missing Data	Code for identifying and handling missing values.
Data Transformation	Code for transforming variables (scaling, normalization).
Feature Engineering	Code for creating new features or modifying existing ones.