Data Collection and Preprocessing Phase

Date	29 November 2024
Team ID	740108
Project Title	Unveiling Climate Change Dynamics Through Earth Surface Temperature Analysis.
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
Kaggle	Missing or Incomplete Data	High	Use interpolation techniques (e.g., linear or polynomial interpolation) or impute missing values with statistical methods (mean, median, or model-based imputation).
Kaggle	Seasonal and Temporal Variability	Moderate	Apply time-series decomposition (e.g., STL or seasonal decomposition) to separate trend and seasonality, allowing for better modelling and forecasting.
Kaggle	Outliers	High	Identify outliers using statistical methods (e.g., IQR or z-scores) and remove or adjust them, or apply robust models like Random Forest or tree-based models.