Climate Change Dataset – Metadata

Version: 1.0
Date: 12-Dec-2025
Prepared by: Your Name / Organization

1. Metadata Columns

Column Name	Description
Record ID	Unique identifier assigned to each climate record.
Date	The date when the observation was recorded.

2. Geographic Columns

Column Name	Description
Country	The country where the climate data was collected.
City	The city or urban location of data collection.

3. Climate and Environmental Metrics

Column Name	Description
Temperature (°C)	Ambient air temperature in Celsius.
Humidity (%)	Relative humidity as a percentage.
Precipitation (mm)	Rainfall or water equivalent in millimeters.
Air Quality Index (AQI)	Numeric scale of air pollution and health risk.
Extreme Weather Events	Major events like hurricanes, heatwaves, or droughts.

4. Classification and Contextual Columns

Column Name	Description
Climate Classification (Koeppen) precipitation patterns.	Scientific climate category based on temperature
Climate Zone	Broad ecological classification of a region.
Biome Type	Large-scale biological community defined by plants, animals, and environment.

5. Meteorological Columns

Column Name	Description
Heat Index humidity representing "feels like" temperature.	Combined measure of temperature
Wind Speed	Rate of air movement at location.
Wind Direction	Compass direction from which wind is blowing.
Season	The time of year when data was collected.

6. Impact and Vulnerability Columns

Column Name	Description
Population Exposure	Number of people potentially affected.
Economic Impact Estimate	Estimated economic consequences of climate events.
Infrastructure Vulnerability Score	Risk rating for infrastructure against climate-related challenges.

End of Metadata Document