📘 Data Dictionary

This data dictionary describes the key fields used in the Weather Forecast Dashboard.

📍 Location Information

Field Name	Description	Data Type
location.name	Name of the city	Text
location.region	State or region of the city	Text
location.country	Country name	Text
location.lat	Latitude of the city	Decimal
location.lon	Longitude of the city	Decimal
location.tz_id	Time zone identifier	Text
location.localtime	Local date and time at the location	DateTime

📅 Forecast Date

Field Name	Description	Data Type
forecast.forecastday.date	Forecast date	Date
forecast.forecastday.date_epoch	Forecast date in Unix epoch format	Integer
Weekday Name	Day of the week (Monday–Sunday)	Text
Weekday Number	Numeric order of weekday (1 = Monday)	Integer

🌡️ Temperature Metrics

Field Name	Description	Data Type

`forecast.forecastday.day.maxtemp_c`	Maximum temperature (°C)	Decimal
`forecast.forecastday.day.mintemp_c`	Minimum temperature (°C)	Decimal
`forecast.forecastday.day.avgtemp_c`	Average temperature (°C)	Decimal
`forecast.forecastday.day.maxtemp_f`	Maximum temperature (°F)	Decimal
`forecast.forecastday.day.mintemp_f`	Minimum temperature (°F)	Decimal
`forecast.forecastday.day.avgtemp_f`	Average temperature (°F)	Decimal

🌬️ Air Quality Metrics

Field Name	Description	Data Type
`current.air_quality.pm10`	PM10 air pollutant concentration	Decimal
`current.air_quality.pm2_5`	PM2.5 air pollutant concentration	Decimal
`current.air_quality.no2`	Nitrogen dioxide concentration	Decimal
`current.air_quality.o3`	Ozone concentration	Decimal
`current.air_quality.us-epa-index`	US EPA air quality index	Integer
`current.air_quality.gb-defra-index`	UK DEFRA air quality index	Integer

🌦️ Weather Conditions

Field Name	Description	Data Type

`forecast.forecastday.day.condition.text`	Weather condition description	Text
`forecast.forecastday.day.condition.icon`	Weather condition icon URL	Text
`forecast.forecastday.day.uv`	UV index value	Decimal
`forecast.forecastday.day.avghumidity`	Average humidity (%)	Integer

🌅 Astronomy Data

Field Name	Description	Data Type
`forecast.forecastday.astro.sunrise`	Sunrise time	Time
`forecast.forecastday.astro.sunset`	Sunset time	Time
`forecast.forecastday.astro.moonrise`	Moonrise time	Time
`forecast.forecastday.astro.moonset`	Moonset time	Time
`forecast.forecastday.astro.moon_phase`	Current moon phase	Text
`forecast.forecastday.astro.moon_illumination`	Moon illumination percentage	Integer