

Air Quality Index Dataset

Content

- There is no denying that air pollution is impacting nature and the climate.
- An Air Quality Index (AQI) value of 201 to 300 translates to very unhealthy air quality conditions for survival, with high levels of health concern.

AQI Values	Levels of Health Concern	Colors
0 to 50	Good	Green
51 to 100	Moderate	Yellow
101 to 150	Unhealthy for Sensitive Groups	Orange
151 to 200	Unhealthy	Red
201 to 300	Very Unhealthy	Purple
301 to 500	Hazardous	Maroon

- The dataset consists of certain parameters such as humidity, wind speed and direction, temperature, visibility, and more on a particular date at a mentioned time.
- The data is present in a single csv file:
 - air_quality.csv - Dataset consisting of approximately 33,750 data samples.

Data Description:

Column	Description
date_time	Date Time value of the sample.
is_holiday	Whether the date is a holiday. If yes, then specifies the name of the holiday.
humidity	Humidity value.
wind_speed	Wind Speed value.
wind_direction	Wind Direction value.
visibility_in_miles	Visibility in Miles value.
dew_point	Dew Point value.
temperature	Temperature value.
rain_p_h	Rain per hour value.
snow_p_h	Snow per hour value.

Column	Description
clouds_all	Clouds all value.
weather_type	Weather Type.
air_pollution_index	Air Pollution Index value. [target]
traffic_volume	Traffic Volume.

Objective:

- This dataset is intended for regression tasks.
- Use this data set to train a model able to predict the air pollution index on a specific day in the future.