

Australia Weather Data

Rain Prediction based on Weather Data

About Dataset

Context

Develop a predictive classifier to predict the next-day rain on the target variable **RainTomorrow**.

Content

This dataset contains about 10 years of daily weather observations from many locations across Australia.

Data Description

- **Location** - Name of the city from Australia.
- **MinTemp** - The Minimum temperature during a particular day. (degree Celsius)
- **MaxTemp** - The maximum temperature during a particular day. (degree Celsius)
- **Rainfall** - Rainfall during a particular day. (millimeters)
- **Evaporation** - Evaporation during a particular day. (millimeters)
- **Sunshine** - Bright sunshine during a particular day. (hours)
- **WindGusDir** - The direction of the strongest gust during a particular day. (16 compass points)
- **WindGuSpeed** - Speed of strongest gust during a particular day. (kilometers per hour)
- **WindDir9am** - The direction of the wind for 10 min prior to 9 am. (compass points)
- **WindDir3pm** - The direction of the wind for 10 min prior to 3 pm. (compass points)
- **WindSpeed9am** - Speed of the wind for 10 min prior to 9 am. (kilometers per hour)
- **WindSpeed3pm** - Speed of the wind for 10 min prior to 3 pm. (kilometers per hour)
- **Humidity9am** - The humidity of the wind at 9 am. (percent)
- **Humidity3pm** - The humidity of the wind at 3 pm. (percent)
- **Pressure9am** - Atmospheric pressure at 9 am. (hectopascals)
- **Pressure3pm** - Atmospheric pressure at 3 pm. (hectopascals)
- **Cloud9am** - Cloud-obscured portions of the sky at 9 am. (eighths)
- **Cloud3pm** - Cloud-obscured portions of the sky at 3 pm. (eighths)
- **Temp9am** - The temperature at 9 am. (degree Celsius)
- **Temp3pm** - The temperature at 3 pm. (degree Celsius)
- **RainToday** - If today is rainy then 'Yes'. If today is not rainy then 'No'.
- **RainTomorrow** - If tomorrow is rainy then 1 (Yes). If tomorrow is not rainy then 0 (No).

Source & Acknowledgements

Observations were drawn from numerous weather stations. The daily observations are available from <http://www.bom.gov.au/climate/data>.

Definitions adapted from <http://www.bom.gov.au/climate/dwo/IDCJDW0000.shtml>.

Data source - <http://www.bom.gov.au/climate/dwo/> and <http://www.bom.gov.au/climate/data>.

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Downloaded from Kaggle:

<https://www.kaggle.com/datasets/manidevesh/weather-data-set-australia>