**DOCUMENTION OF WEATHER DATA ANALYSIS**

**Data Analyst Project: Exploring Weather Data Insights**

Welcome to the Data Analyst project of internship phase1! This project focuses on analyzing dataset using a combination of Python and data visualization tool Power BI. Below are the detailed explanations of Weather data analysis.

**Detailed Dataset Insights:**

1. The weather dataset contains 366 rows and 22 columns.
2. These columns are in 3 different types of data types such as integer, float, and object.
3. Out of these columns 6 columns contained some null values so we had to remove that before processing.
4. For correlation analysis between Rainfall and Evaporation it falls under the values 0 and -1
5. For outlier detection, IQR(Inter Quartile Range) of Humidity at 9 am and Humidity at 3 pm is 17

After removing the outlier the shape of the weather data was changed,

The total rows are 364

The total columns are 22

1. For Regression analysis,

If we consider Rain today and Rain tomorrow by WindGustDir then the highest windGustDir in the Northwest which is 45 and Rain today and Rain tomorrow is “NO”.

1. The sum of maximum temperature and minimum temperature happened in the WindSpeed9am at that point 6,The maximum temperature value is 1,707 and the minimum temperature value is 622.
2. The sum of total Sunshine is 2,853.90.
3. The highest sum of Risk\_MM is 147.20 at that period sum of humidity at 3 pm is 1386, sum of humidity at 9 am is 2219 and WindDir9am is N.