

WEATHERPY
DATA ANALYSIS

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HOME ASSIGNMENT – 6

INTRODUCTION:

In this project, we try to come up with proof on Earth's weather conditions getting hotter as we approach the equator, we try to pick 600+ random cities across the world of varying distance from the equator and analyze weather conditions on each of the cities by making a series of successive API calls.

CONTENTS:

- ❖ Github/iPython Notebook file link
- ❖ Sources
- ❖ Technical Requirements
- ❖ Observations

❖ GitHub/I Python Notebook file link:

➤ GitHub:

https://github.com/skavya90/MATPLOTLIB_Week5.git

➤ JupyterNotebook/IPython:

❖ Sources :

➤ OpenWeatherMap API -

<https://openweathermap.org/api>

➤ Citipy : Used as a data source for capturing nearest cities
with geo coordinates

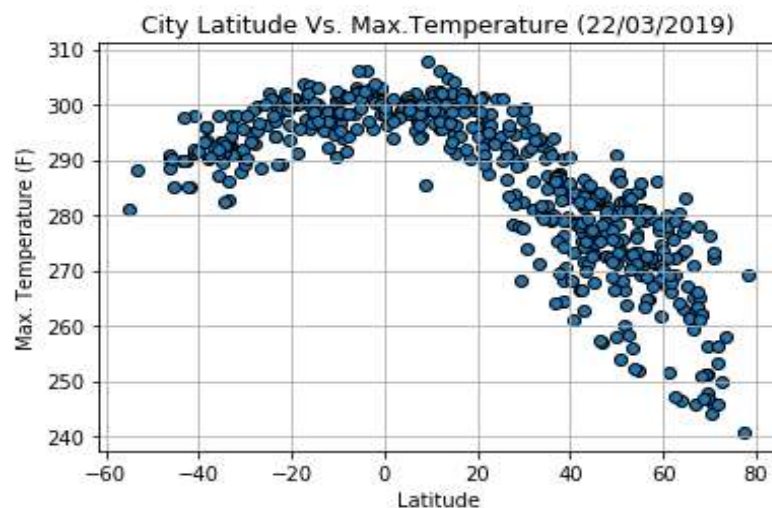
❖ Technical Requirements:

- Python
- Pandas
- Matplotlib
- Requests
- Datetime

❖ Observations/Conclusions

1. The plot below shows relation between temperatures and latitudes.

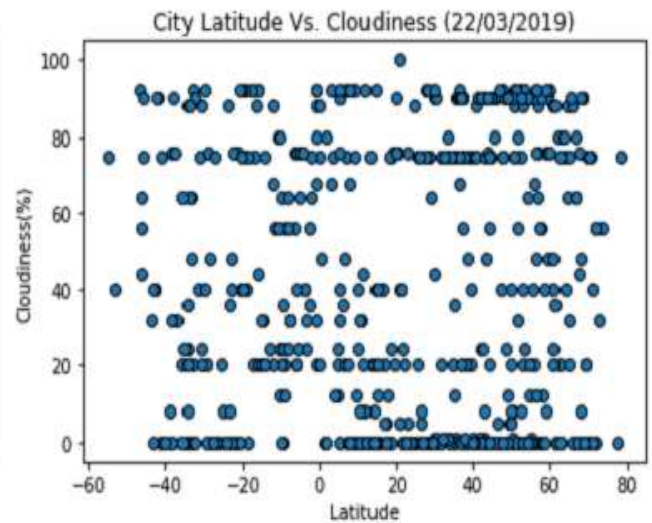
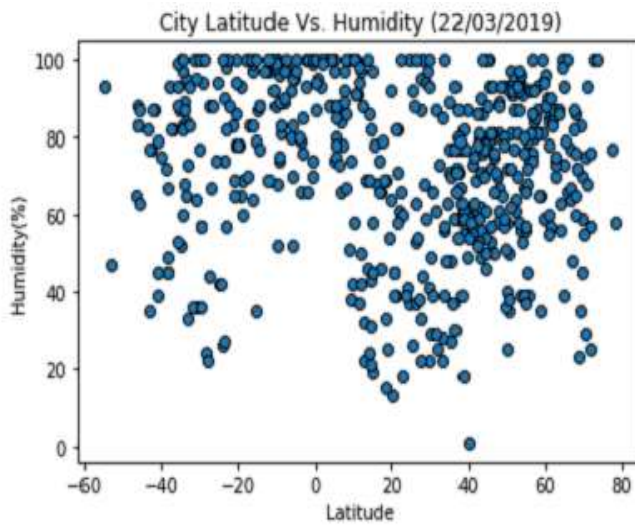
- we could clearly notice that temperature is increasing as we move towards equator (0 degrees)



2. The plot below shows relation between

- a. latitudes and humidity
- b. latitudes and cloudiness

➤ We can observe that there is humidity is spread all across with no specific pattern between latitude and humidity.



3. The plot below shows relation between wind speed and latitudes.

- It is observed that wind speeds are consistently low near equator.

