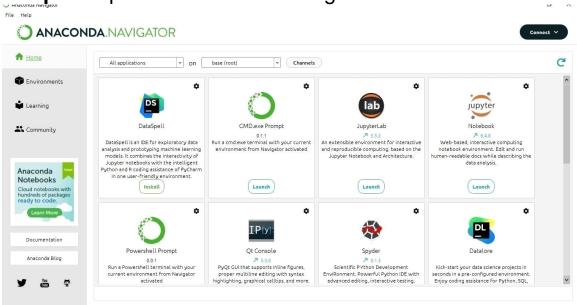
## **Exploratory Analysis of RainFall Data in India for Agriculture.**

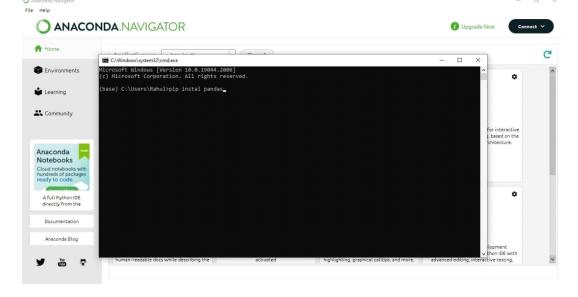
#### Team ID: PNT2022TMID47758

### Installing python package

**Step 1 :** Open the anaconda navigator. In the star menu



Step 2: Open the CMD.exe prompt



# **Step 3 :** Install the **NUMPY** package . To enter the **numpy** package enter the command in the

CMD.exeCommand: Pip install

#### numpy

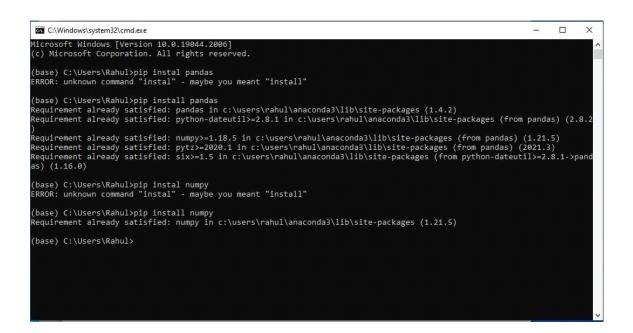
#### **NUMPY:**

Numpy: This package is used to perform

numerical computations. This package is pre-

installed in anaconda.

NumPy is used for working with arrays. NumPy is short for "Numerical Python



**Step 4**: install the **pandas** package. To enter the **pandas** package enter the command in the

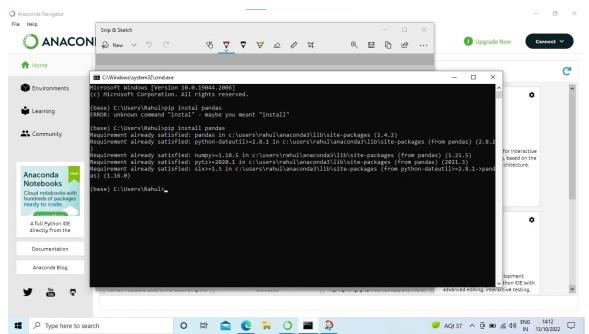
CMD.exeCommand: Pip install

### pandas

#### Pandas:

Pandas is one of the most widely used python libraries in data science. It provides high-performance, easy to use structures, and data analysis tools. This package is pre-installed in anaconda. is an open-source library that is built on top of

NumPy library. It is a Python package that offers various data structures and operations for manipulating numerical data and time series. It is mainly popular for importing and analyzing data much easier. Pandas is fast and it has high-performance &productivity for users.



**Step 5**: install the **Matplotlib** package .To enter the **Matplotlib** package enter the command in the CMD.exe

Command: Pip install Matplotlib Matplotlib

:

Matplotlib is a comprehensive library for creating static,

animated, and interactive visualizations in Python. This package is pre-installed in anaconda. Matplotlib is an amazing visualization library in Python for 2D plots of arrays. Matplotlib is a multi-platform data visualization library built on NumPy arrays and designed to work with the broader SciPy stack. It was introduced by John Hunter in the year 2002.

```
Requirement already satisfied: itsdangerous>=0.24 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.1)
Requirement already satisfied: colorama in c:\users\rahul\anaconda3\lib\site-packages (from click>=5.1->flask) (0.4.4)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\rahul\anaconda3\lib\site-packages (from click>=5.1->flask) (0.4.4)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\rahul\anaconda3\lib\site-packages (from Jinja2>=2.10.1->flask) (2.0.1)

(base) C:\Users\Rahul>pip install matplotlib in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.8 Requirement already satisfied: matplotlib in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.8 .2)
Requirement already satisfied: pillow>=6.2.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (9.0.1)
Requirement already satisfied: cycler>=0.10 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.3.2)
Requirement already satisfied: pyparsing>=2.2.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (3.0.4)
Requirement already satisfied: pyparsing>=2.2.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.1.3)
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Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.1.3)
Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.1.3)
Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.1.3)
Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from scikit-learn) (2.2.6)
Requirement already satisfied: six=-packages (from scikit-learn) (1.0)
Requirement already satisfied: scikit-learn in c:\users\rahul\anaconda3\lib\site-packa
```

Step 6 : install the Scikit-learn package . to enter the Scikitlearn

package enter the command in the CMD, exe

#### Command: Pip install Scikit-learn Scikit-learn:

This is a machine learning library for the Python programming language. This package is pre-installed in anaconda.

 Scikit learn in python is mostly used in python for focusing on the modeling. It simply focused on modeling not focused on loadingthe data.

```
Requirement already satisfied: itsdangerous>=0.24 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.1)
Requirement already satisfied: colorama in c:\users\rahul\anaconda3\lib\site-packages (from click>=5.1->flask) (0.4.4)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\rahul\anaconda3\lib\site-packages (from Jinja2>=2.10.1->flask) (2.0.1)

(base) C:\Users\Rahul>pip install matplotlib
Requirement already satisfied: matplotlib in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.8
.2)
Requirement already satisfied: pillow>=6.2.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (9.0.1)
Requirement already satisfied: cycler>=0.10 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (0.11.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.3.2)

Requirement already satisfied: fonttools>=4.22.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (4.25.0)
Requirement already satisfied: pyparsing>=2.2.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.3.2)

Requirement already satisfied: pyparsing>=2.2.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.2.1.5)
Requirement already satisfied: packaging>=2.0.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.2.1.5)
Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.2.3)
Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from python-dateutil>=2.7->matplotlib (1.16.0)

(base) C:\Users\Rahul>pip install scikit-learn in c:\users\rahul\anaconda3\lib\site-packages (from scikit-learn) (2.2.0)
Requirement already satisfied: scikit-learn in c:\users\rahul\anaconda3\lib\site-packages (from scikit-learn) (1.1.0)
Requirement already satisfied: scikit-learn in c:\users\rahul\anaconda3\lib\site-packages (from scikit-learn) (1.7.3)
Requirement already satisfied: scikit-learn in c:\users\rahul\anaconda3
```

**Step 7**: Install the **Flask** package . to enter the **Flask** packageenter the command in the CMD, exe

Command: Pip install Flask Flask:

```
ERROR: Could not find a version that satisfies the requirement matpotlib==6.0 (from versions: none)

ERROR: No matching distribution found for matpotlib==6.0

(base) C:\Users\Rahul\pip install flask
Requirement already satisfied: flask in c:\users\rahul\anaconda3\lib\site-packages (from flask) (8.0.4)
Requirement already satisfied: linab==2.10.1 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.11.3)
Requirement already satisfied: werkzeug>=0.15 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.3)
Requirement already satisfied: werkzeug>=0.15 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.1)
Requirement already satisfied: itsdangerous>=0.24 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.1)
Requirement already satisfied: colorama in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.1)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\rahul\anaconda3\lib\site-packages (from Jinja2>=2.10.1->flask
k) (2.0.1)

(base) C:\Users\Rahul\pip install matplotlib
Requirement already satisfied: matplotlib in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.8
2.2)
Requirement already satisfied: python-dateutll>=2.7 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (9.0.1)
Requirement already satisfied: pillow>=6.2.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (0.11.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.3.2)
Requirement already satisfied: pyparsing>=2.2.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.2.5.0)
Requirement already satisfied: pyparsing>=2.2.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.2.1.5)
Requirement already satisfied: pyparsing>=2.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.2.1.5)
Requirement already satisfied: pyparsing>=2.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.2.1.5)
Requirement already satisfied: packagi
```

Flask is a lightweight WSGI web application framework Flask is a web application framework written in Python. Armin Ronacher, who leads an international group of Python enthusiasts named Pocco, develops it. Flask is based

on Werkzeug WSGI toolkit and Jinja2 template engine. Both are Pocco projects.