sourcedata:https://data.gov.in/catalog/district-rainfall-normal-mm-monthly-seasonal-and-annual-data-period-1951-2000

Indian Rainfall data analysis:

Display first 5 rows of dataset:

```
import numpy as np
import pandas as pd
from matplotlib import pyplot as py
from mpl_toolkits.mplot3d.axes3d import Axes3D
from statistics import mode
import seaborn as sns
b=pd.read_csv('C:/Users/616911/PycharmProjects/test1/veny/Scripts/rest.csv')
print(b.head())
 test1 ×
 C:\Users\616911\AppData\Local\Programs\Python\Python37-32\python.exe C:/Users/616911/Pyc
                                   DISTRICT
                        STATE/UT
                                       DISTRICT JAN ... MAM JJAS NICOBAR 107.3 ... 540.7 1207.2
                                                                                OND
 0 ANDAMAN And NICOBAR ISLANDS
                                                                              892.1
 1 ANDAMAN And NICOBAR ISLANDS SOUTH ANDAMAN 43.7 ... 483.5 1757.2 705.3
                                         ANDAMAN 32.7 ... 405.6 1884.4 574.7
LOHIT 42.2 ... 841.3 1848.5 231.0
 2 ANDAMAN And NICOBAR ISLANDS N & M ANDAMAN
              ARUNACHAL PRADESH
              ARUNACHAL PRADESH EAST SIANG 33.3 ... 645.4 3008.4 268.1
 [5 rows x 19 columns]
 Process finished with exit code 0
```

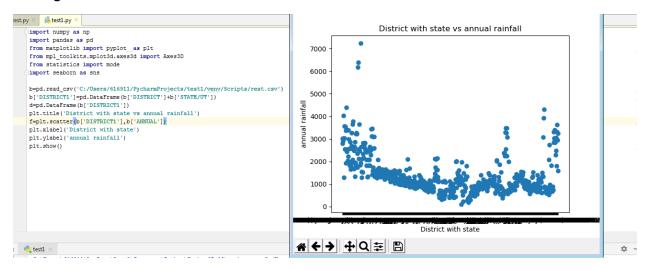
Fetching the column wise statistical volume of data by means of mean, std, min, max, 25%, 75%

```
import pandas as pd
f⊕m matplotlib import pyplot as py
from mpl_toolkits.mplot3d.axes3d import Axes3D
from statistics import mode
import seaborn as sns
b=pd.read csv('C:/Users/616911/PycharmProjects/test1/venv/Scripts/rest.csv')
print(b.describe())
test1 ×
 C:\Users\616911\AppData\Local\Programs\Python\Python37-32\python.exe C:/Users/616911/Pych
             JAN FEB MAR ...
                                                MAM JJAS
                                                                      OND
 count 641.00000 641.00000 641.00000 ... 641.00000 641.00000
      18.355070 20.984399 30.034789 ... 157.113105 1007.80234 142.714665
mean
std
       21.082806 27.729596 45.451082 ... 213.445888 629.33261 148.951752
       0.000000 0.000000 0.000000 ...
                                           1.500000 39.60000
min
                                                                 5.600000
       6.900000 7.000000
                           7.000000 ... 27.800000 625.40000 51.600000
 25%
 50%
       13.300000 12.300000 12.700000 ... 67.200000 896.60000 86.700000
75%
      19.200000 24.100000 33.200000 ...
                                         172.400000 1193.80000 175.200000
 max 144.500000 229.600000 367.900000 ... 1256.500000 5228.00000 1048.500000
```

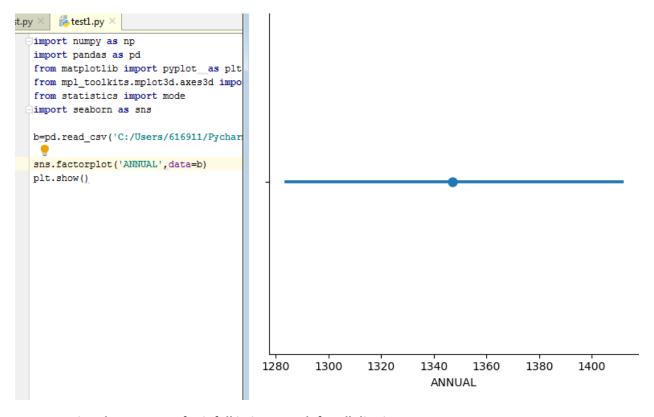
Combining both state and district:

```
from mpl toolkits.mplot3d.axes3d import Axes3D
from statistics import mode
import seaborn as sns
b=pd.read csv('C:/Users/616911/PycharmProjects/test1/venv/Sc
b['DISTRICT1']=pd.DataFrame(b['DISTRICT']+b['STATE/UT'])
d=pd.DataFrame(b['DISTRICT1'])
print(d)
 test1 ×
 C:\Users\616911\AppData\Local\Programs\Python\Python37-32\j
                                      DISTRICT1
            NICOBARANDAMAN And NICOBAR ISLANDS
 0
 1
      SOUTH ANDAMANANDAMAN And NICOBAR ISLANDS
      N & M ANDAMANANDAMAN And NICOBAR ISLANDS
 2
 3
                        LOHITARUNACHAL PRADESH
                   EAST SIANGARUNACHAL PRADESH
 4
 5
                SUBANSIRI F.DARUNACHAL PRADESH
                        TIRAPARUNACHAL PRADESH
 6
 7
                ANJAW (LOHIT) ARUNACHAL PRADESH
 8
                 LOWER DIBANGARUNACHAL PRADESH
 9
                    CHANGLANGARUNACHAL PRADESH
 10
                   PAPUM PAREARUNACHAL PRADESH
                LOW SUBANSIRIARUNACHAL PRADESH
 11
 12
                  UPPER SIANGARUNACHAL PRADESH
                   WEST STANGADINIACHAT DDANESH
```

Plotting scatter rainfall of "state+district" vs annual rainfall:



Annual rainfall of state in seaborn:



Representing the amount of rainfall in jan month for all districts:

