

Data Visualization

1. Dataset : Covid-19 full data all around the world
2. Extracted dataset file name : Covid-19 country wise latest
3. Content information of the extracted Dataset :

Data extracted from the Dataset

RangeIndex : 187 entries, 0 to 186

Data columns (total 15 columns):

#	Column	Non-Null Count	Dtype
---	-----	-----	-----
0	Country/Region	20 non-null	object
1	Confirmed	20 non-null	int64
2	Deaths	20 non-null	int64
3	Recovered	20 non-null	int64
4	Active	20 non-null	int64

Dtypes : float64(4), int64(9), object(2)

Memory usage : 22.0+ KB

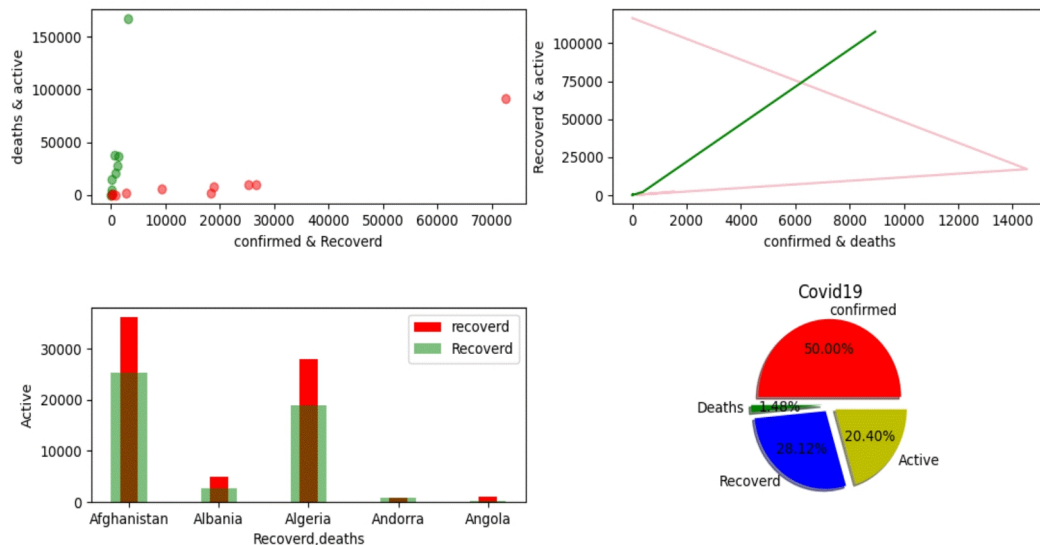
Column Description :

- ◆ First column contain the selected country and region in covid-19 dataset
- ◆ In second column contain the confirmed cases of with respective region in the dataset.
- ◆ Third column contain the Deaths with respective country In the Dataset
- ◆ In the following column have the Recovered data
- ◆ In the last column Active cases of covid-19 data in selected

Relevant Code :

```
1 from matplotlib import pyplot as plt
2 import pandas as pd
3
4 # reading the dataset from the csv file
5 data = pd.read_csv('covid19.csv')
6
7 # reading data
8 x1 = data.iloc[0:10,1].values
9 y1 = data.iloc[0:10,2].values
10 a1 = data.iloc[0:10,3].values
11 b1 = data.iloc[0:10,4].values
12
13 x2 = data.iloc[28:33,1].values
14 y2 = data.iloc[28:33,3].values
15 a2 = data.iloc[28:33,2].values
16 b2 = data.iloc[28:33,4].values
17
18
19
20 x3 = data.iloc[0:5,0].values
21 y3 = data.iloc[0:5,1].values
22 a3 = data.iloc[0:5,3].values
23
24 a4 = data.iloc[1,1:5].values
25
26
27 # scattering graph
28 plt.subplot(221)
29 plt.scatter(y1,x1,c='g',alpha=.5)
30 plt.scatter(a1,b1,c='r',alpha=.5)
31 plt.xlabel('confirmed & Recoverd')
32 plt.ylabel('deaths & active')
33
34 # plot graph
35 plt.subplot(222)
36 plt.plot(y2,x2,c='pink')
37 plt.plot(a2,b2,c='g')
38 plt.xlabel('confirmed & deaths')
39 plt.ylabel('Recoverd & active')
40
41 # bar graph
42 plt.subplot(223)
43 plt.bar(x3,y3,width=0.2,label="recoverd",color="r")
44 plt.bar(x3,a3,width=0.4,alpha=0.5,label="Recoverd",color="g")
45 plt.xlabel('Recoverd,deaths')
46 plt.ylabel('Active')
47 plt.legend()
48
49 # pie graph
50 plt.subplot(224)
51 color = ['r','g','b','y']
52 activities = ['confirmed','Deaths','Recoverd','Active']
53 plt.pie(a4,labels=activities,colors=color,shadow=True,explode=(.1,.1,.1,.1),autopct='%1.2f%%')
54 plt.title('Covid19')
55
56
57 plt.show()
```

Graphs :



Graphs Description :

1. In the first graph it's a Scatter graph there I represent the no.of active vs recovered and Confirmed and Deaths data from the Covid-19 dataset to visualize the ratio of both in one type of graph.
2. In the second graph I represent the graph in Plot type graph where consider no.of active vs recovered and Confirmed and Deaths extracted from the dataset covid-19 dataset
3. In the third graph I represent the graph in bar graph by taking the active column vs both recovered, deaths in the dataset to visualize the verification the respective data
4. In the last graph I represent data in the pie chart graph by taking the data from country column and confirmed,deaths,recovered,active columns from the dataset to visualize the percentage of the cases in covid-19 data

Conclusion :

In this analysis on covid-19 cases on confirmed,deaths,recovered & active with respective country's as there in the dataset how it's ratio is going on day by day

By this analysis we get to know how the covid-19 cases are rise and back normal condition after long time but still the graph is on average position compare to initial days its decreases