

Importing Dataset of Covid-19

```
In [1]: import pandas as pd

d1 = pd.read_csv(r'country_wise_latest.csv')
d1
```

Out[1]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase	WHO Region
0	Afghanistan	36263	1269	25198	9796	106	10	18	3.50	69.49	5.04	35526	737	2.07	Eastern Mediterranean
1	Albania	4880	144	2745	1991	117	6	63	2.95	56.25	5.25	4171	709	17.00	Europe
2	Algeria	27973	1163	18837	7973	616	8	749	4.16	67.34	6.17	23691	4282	18.07	Africa
3	Andorra	907	52	803	52	10	0	0	5.73	88.53	6.48	884	23	2.60	Europe
4	Angola	950	41	242	667	18	1	0	4.32	25.47	16.94	749	201	26.84	Africa
...
182	West Bank and Gaza	10621	78	3752	6791	152	2	0	0.73	35.33	2.08	8916	1705	19.12	Eastern Mediterranean
183	Western Sahara	10	1	8	1	0	0	0	10.00	80.00	12.50	10	0	0.00	Africa
184	Yemen	1691	483	833	375	10	4	36	28.56	49.26	57.98	1619	72	4.45	Eastern Mediterranean
185	Zambia	4552	140	2815	1597	71	1	465	3.08	61.84	4.97	3326	1226	36.86	Africa
186	Zimbabwe	2704	36	542	2126	192	2	24	1.33	20.04	6.64	1713	991	57.85	Africa

187 rows × 15 columns

Modifying The Dataset and Cleaning it

```
In [282]: x = d1.drop(columns = ['Deaths', 'WHO Region', '1 week % increase', '1 week change', 'Confirmed last week', 'Deaths / 100 Recovered', 'Recovered /
yd = d1['Deaths']
yr = d1['Recovered']
y = d1['Country/Region']
h = d1.drop(columns = ['WHO Region', '1 week % increase', '1 week change', 'Confirmed last week', 'Deaths / 100 Recovered', 'Recovered / 100 Cases
h
```

Out[282]:

	Country/Region	Deaths
0	Afghanistan	1269
1	Albania	144
2	Algeria	1163
3	Andorra	52
4	Angola	41
...
182	West Bank and Gaza	78
183	Western Sahara	1
184	Yemen	483
185	Zambia	140
186	Zimbabwe	36

187 rows × 2 columns

Creating the Model

```
In [163]: from sklearn.tree import DecisionTreeClassifier
model = DecisionTreeClassifier()
modeld = DecisionTreeClassifier()
modelr = DecisionTreeClassifier()

model.fit(x.values,y)
modeld.fit(x.values,yd)
modelr.fit(x.values,yr)

d1
```

Out[163]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase	WHO Region
0	Afghanistan	36263	1269	25198	9796	106	10	18	3.50	69.49	5.04	35526	737	2.07	Eastern Mediterranean
1	Albania	4880	144	2745	1991	117	6	63	2.95	56.25	5.25	4171	709	17.00	Europe
2	Algeria	27973	1163	18837	7973	616	8	749	4.16	67.34	6.17	23691	4282	18.07	Africa
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...
182	West Bank and Gaza	10621	78	3752	6791	152	2	0	0.73	35.33	2.08	8916	1705	19.12	Eastern Mediterranean
183	Western Sahara	10	1	8	1	0	0	0	10.00	80.00	12.50	10	0	0.00	Africa
184	Yemen	1691	483	833	375	10	4	36	28.56	49.26	57.98	1619	72	4.45	Eastern Mediterranean
185	Zambia	4552	140	2815	1597	71	1	465	3.08	61.84	4.97	3326	1226	36.86	Africa
186	Zimbabwe	2704	36	542	2126	192	2	24	1.33	20.04	6.64	1713	991	57.85	Africa

187 rows × 15 columns

Training The Model

```
In [72]: p = model.predict([ [36000,9700],[4800,1990] ])
pd = modeld.predict([ [36000,9700] ])
pr = modelr.predict([ [36000,9700] ])

pr
```

```
Out[72]: array([25198], dtype=int64)
```

```
In [88]: from sklearn.model_selection import train_test_split as tts
x_train , x_test , y_train, y_test = tts(x,yd,test_size=0.2)

model.fit(x_train,y_train)
p = model.predict(x_test)
p
```

```
Out[88]: array([  0, 35112,  2760, 30212,   294,   255,   408,   15,   294,
                15,   34,   11,    0, 1945,   474, 1676,    1, 1978,
                373,    0,    2, 1761,   393,   48,   14,   15,    0,
                255,   53,   294,   91,    2, 1676, 4656,    0, 33408,
                5,  474], dtype=int64)
```

Accuracy Score

```
In [279]: from sklearn.metrics import accuracy_score as acc

x_train , x_test , y_train, y_test = tts(x,yd,test_size=0.1)

modeld.fit(x_train,y_train)
p = model.predict(x_test)

score = acc(y_test,p)
score
```

```
Out[279]: 0.8947368421052632
```

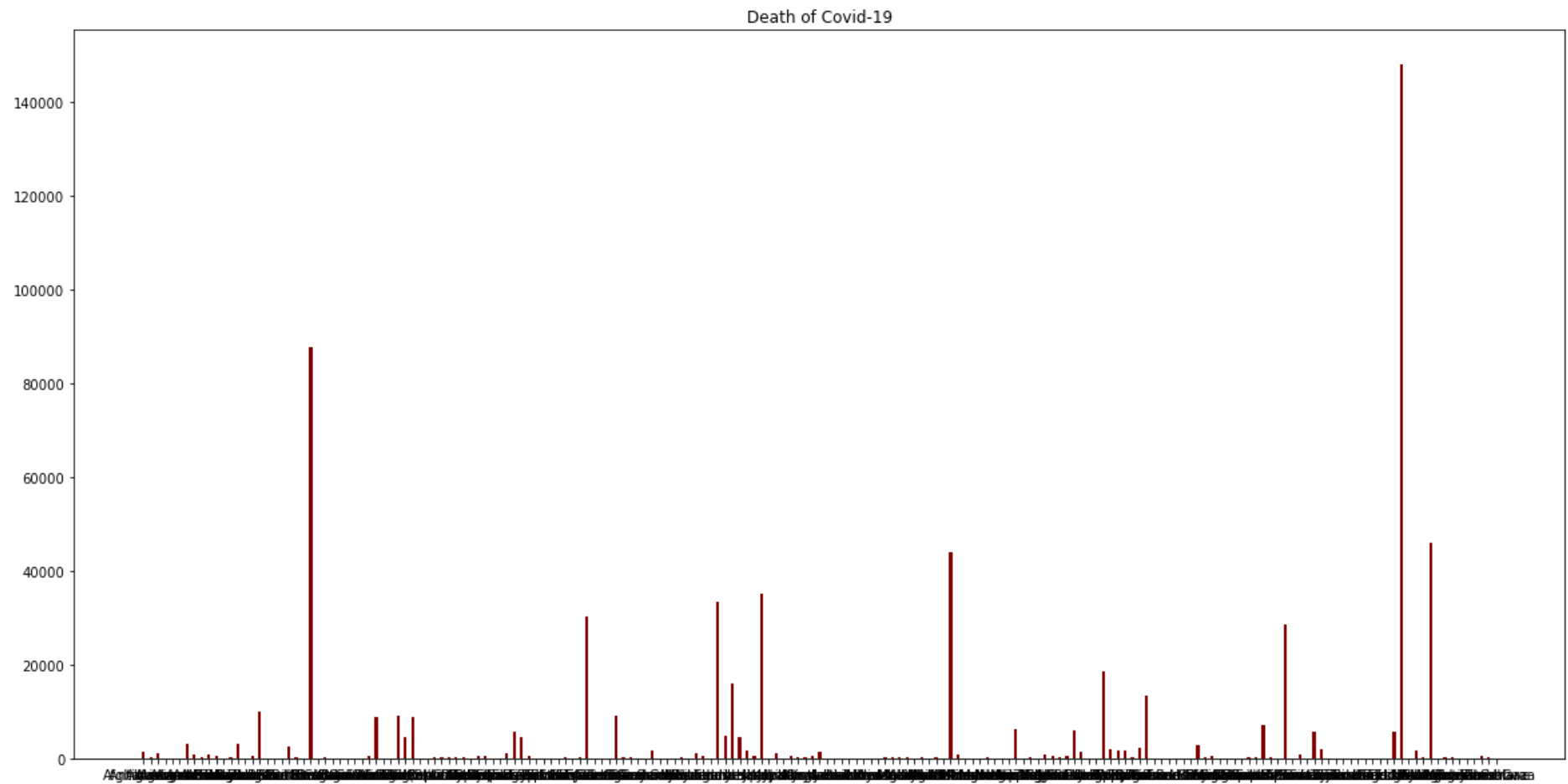
```
In [ ]:
```

```
In [294]: import numpy as np
import matplotlib.pyplot as plt

fig = plt.figure(figsize = (20, 10))

plt.bar(d1['Country/Region'], d1['Deaths'], color = 'maroon',width = 0.4)

plt.title("Death of Covid-19")
plt.show()
```



```
In [ ]:
```

