

# Covid\_19 And the Outperformance Of "Southern Zone"

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')

In [2]: covid_df=pd.read_csv("covid.csv")
covid_df.head()

Out[2]:
state confirmed active passive deaths dose1 dose2 dose3 precaution_dose total_doses population
0 Andaman and Nicobar 10742 1 10612 129 313284 320383 236936 53427 991263 426251
1 Andhra Pradesh 233067 3 234331 14733 4064161 4194805 1178272 607960 11008766 5288163
2 Arunachal Pradesh 66890 0 66894 296 460443 747177 32403 58618 1911760 1238296
3 Assam 746100 0 8035 50284713 34586234 1077 1259653 50284713 34586234
4 Bihar 851379 15 839602 12302 62944633 59144367 119461013 3868682 157197041 119461013

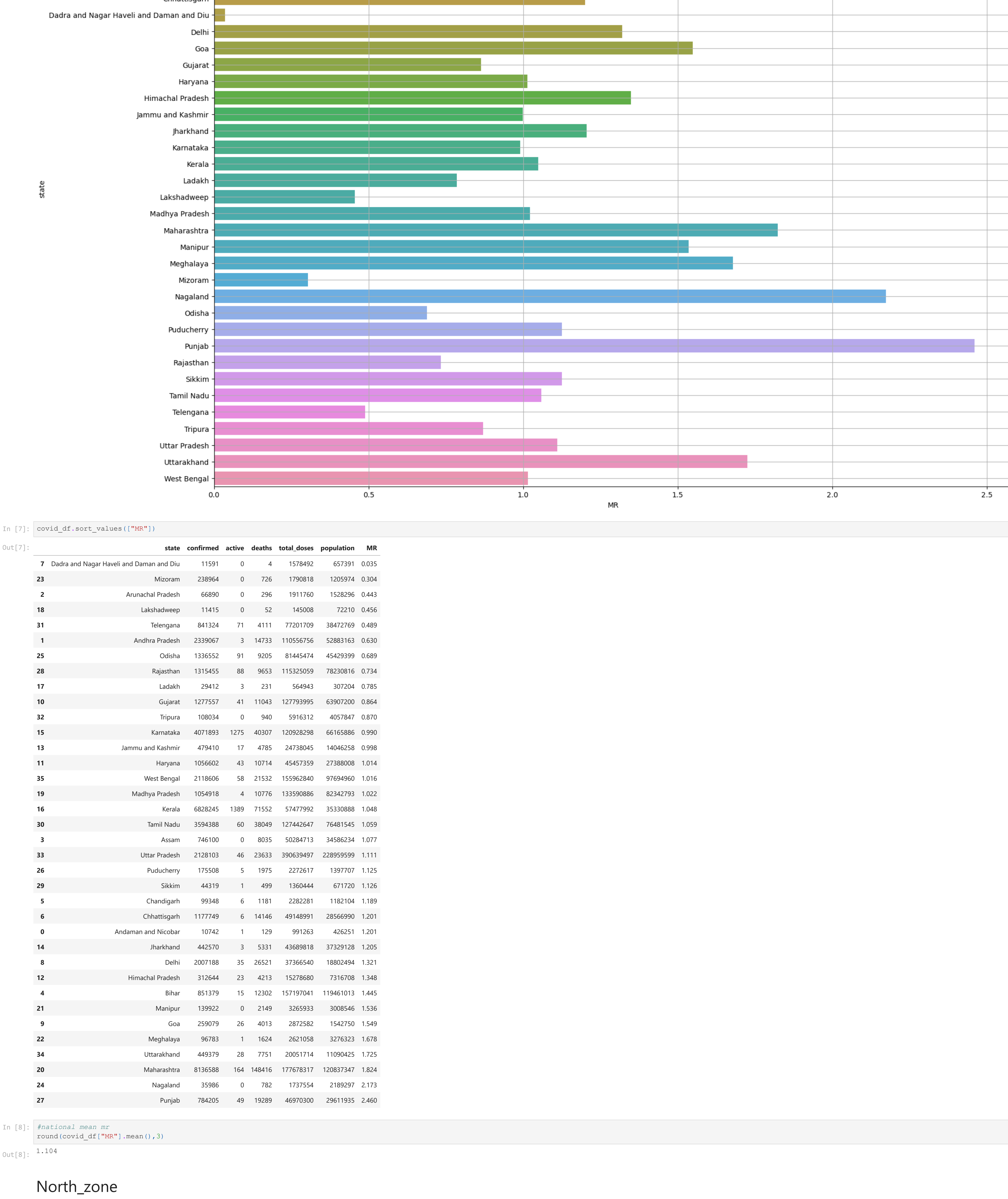
In [3]: covid_df.drop(["passive","dose1","dose2","dose3","precaution_dose"],axis=1,inplace=True)

In [4]: #for calculation
covid_df["MR"]=round((covid_df["deaths"])/covid_df["confirmed"])*100,3)

In [5]: covid_df.head()

Out[5]:
state confirmed active deaths total_doses population MR
0 Andaman and Nicobar 10742 1 129 991363 426251 1.201
1 Andhra Pradesh 233067 3 14733 110556756 5288163 0.630
2 Arunachal Pradesh 66890 0 296 1911760 1528296 0.443
3 Assam 746100 0 8035 50284713 34586234 1.077
4 Bihar 851379 15 12302 157197041 119461013 1.445

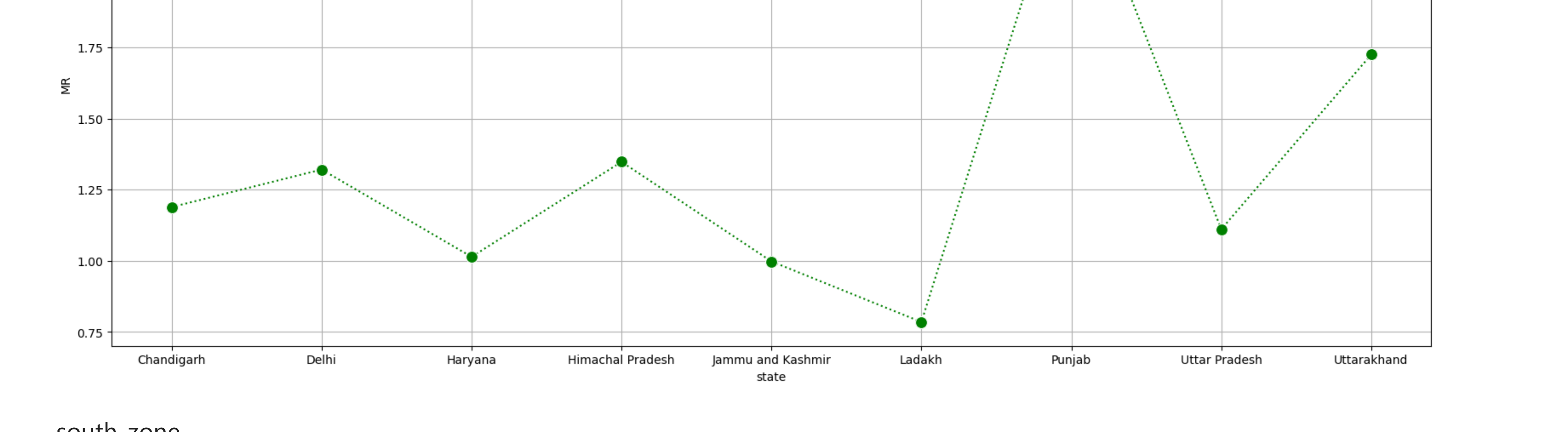
MR VS STATES
```



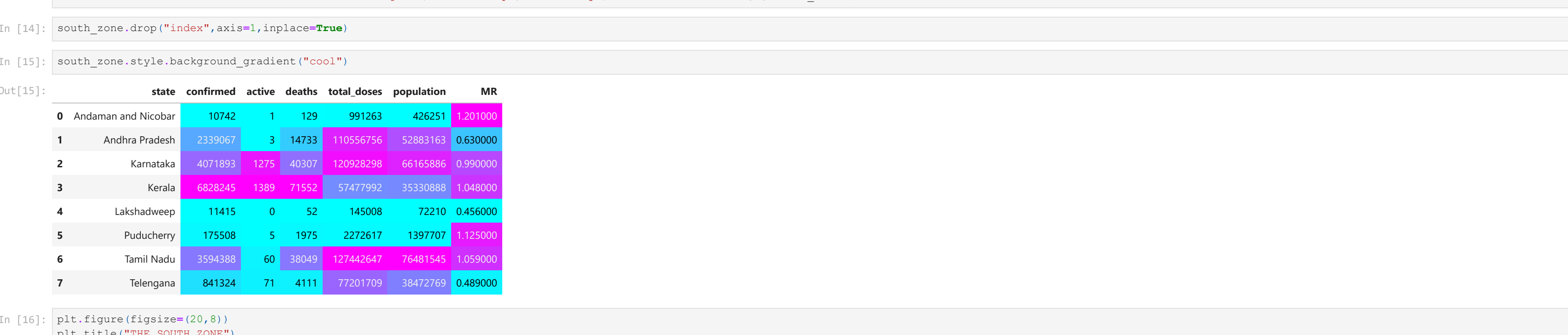
## North\_zone



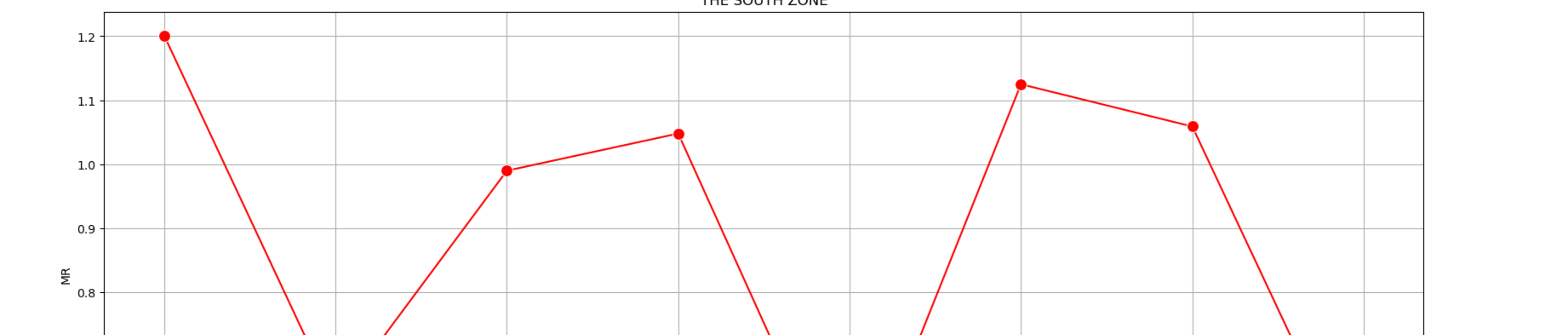
## south\_zone



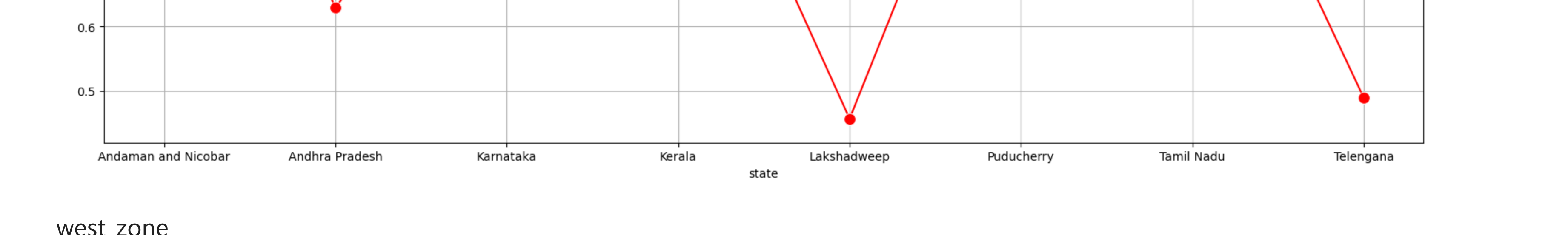
## west\_zone



## east\_zone



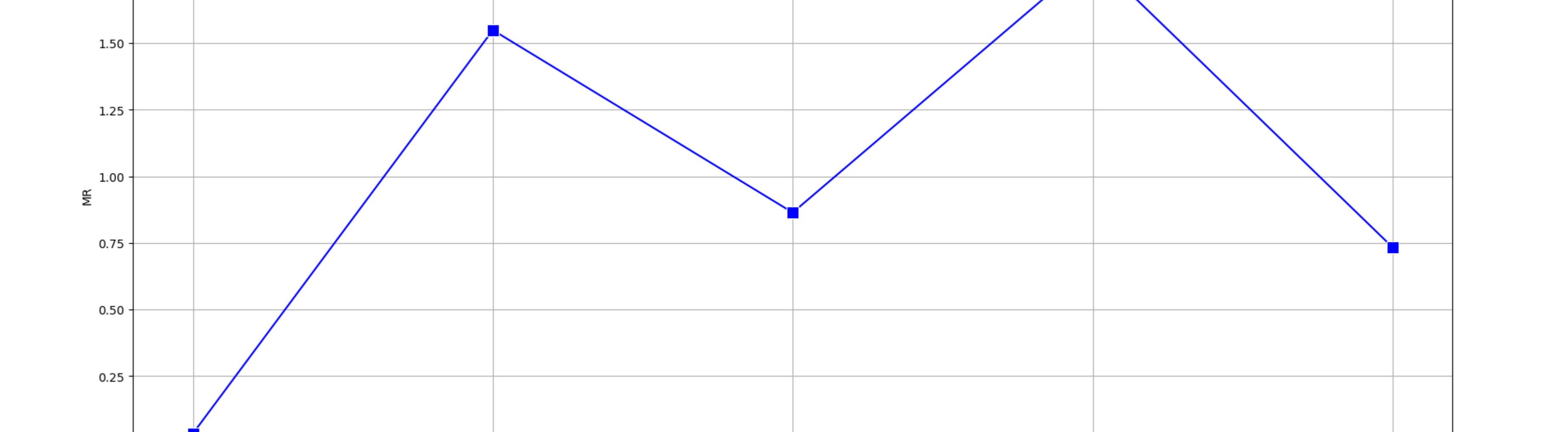
## central\_zone



## north\_east\_zone



## mean mr of each zones



```
In [47]: Total_deaths=covid_df["deaths"].sum()

In [48]: print("THE TOTAL NUMBER OF COVID DEATHS:",Total_deaths)

THE TOTAL NUMBER OF COVID DEATHS: 530698

In [ ]:
```