DATA 101
Assignment 2 :Plot your Data

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WHY INDIA'S COVID 19 DATA

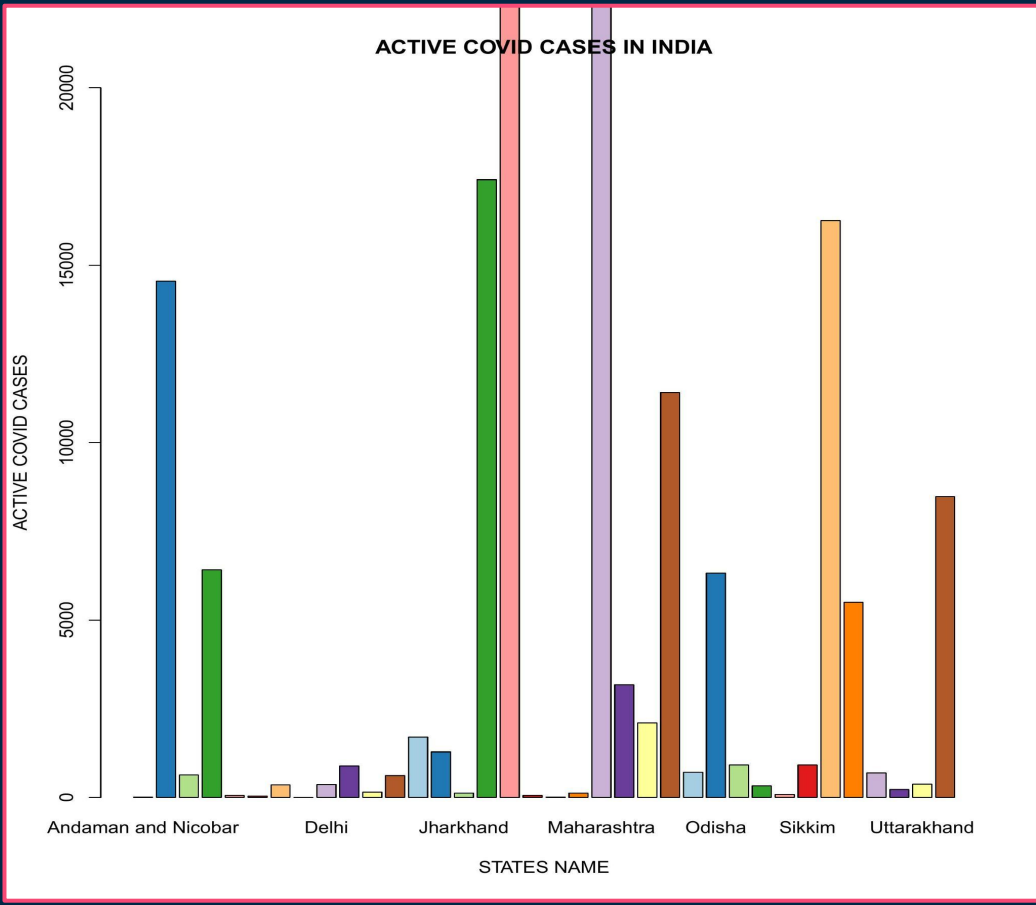
We all know that the US is at the top list for having the most active case ever recorded and has the most death. Whereas, India has the second most active cases but in the shortest time. India was totally unaware of the biggest spike coming, that resulted in 1/5 th of the total patient out of all Covid positive died just because they did not had oxygen and bed facility left for patient.

- This data can help figure out which state in India has the major active cases, so that they can red alert the area.
- Graph contains Death per state, which can help us which state faced majority of deaths and researchers and study what was the major reason behind it.
- Graph can also be used to figure out the trend

  between Active ratio and Discharge ratio.

DATA PLOTS

- Active cases per state, we can see that states like Jharkhand, maharashtra and uttarakhand has the highest cases.

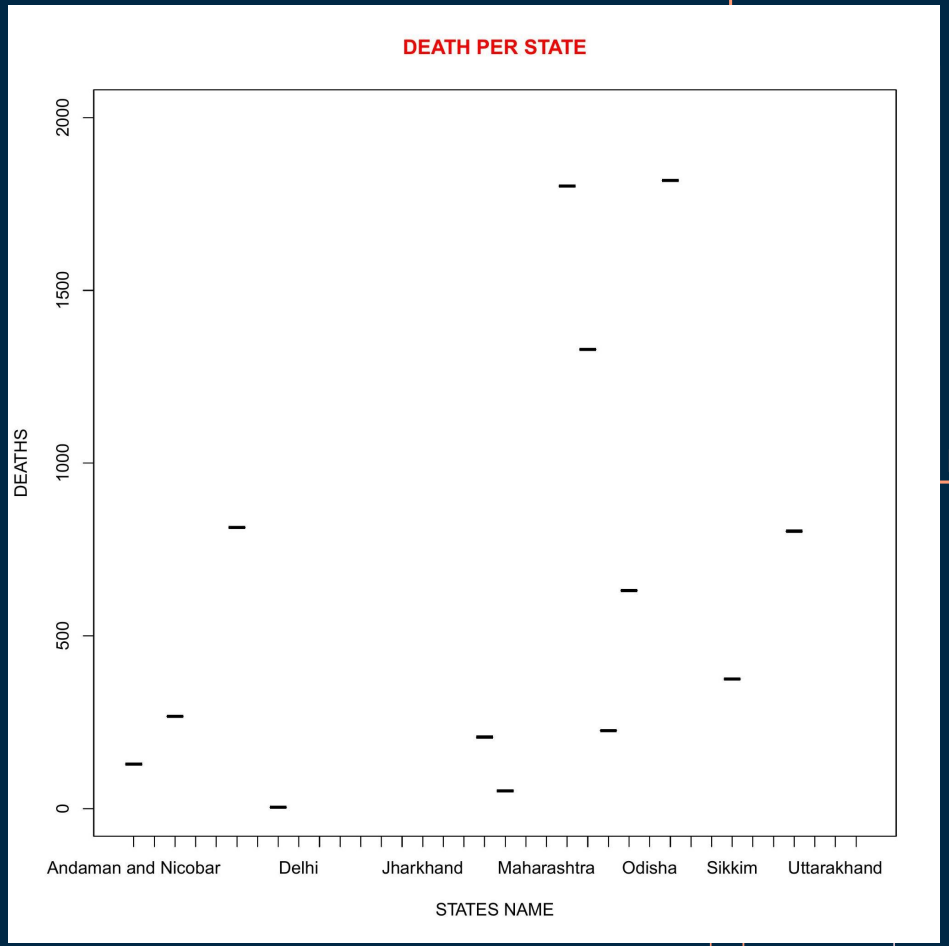


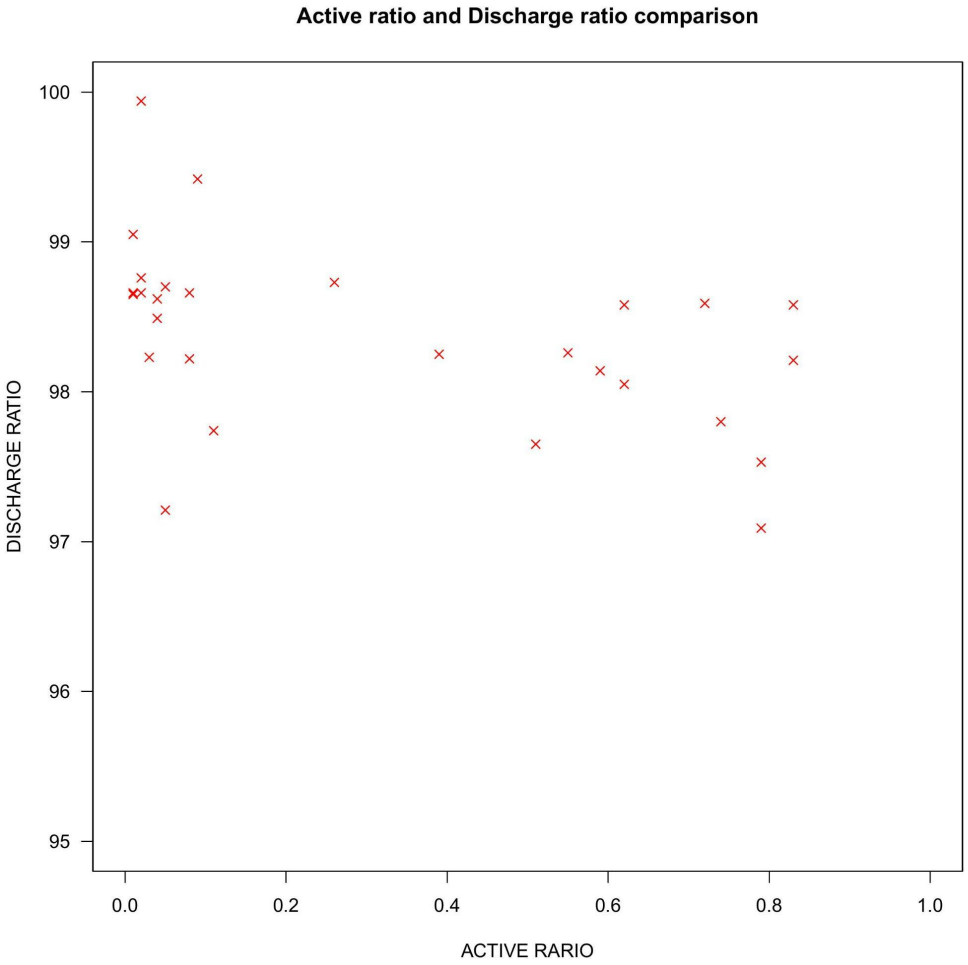

```
barplot(cases$Active, names.arg=cases$statesname, xlab= "STATES NAME", ylab="ACTIVE COVID CASES", main= "ACTIVE COVID CASES IN INDIA", ylim= c(0,20000), col=brewer.pal(22,"Paired"))
```

This box plot shows the data of death's recorded per state.

R CODE:

```
boxplot(cases$Deaths~cases$statesname, xlab= "STATES NAME", ylab= "DEATHS", main= "DEATH PER STATE", ylim= c(0,2000), col.main= "red")
```





This plot help us to get an idea about the active cases being recorded and the discharge ratio. We can tell that as active ratio increases, discharge ratio decreases which result is more threat of spreading the virus because active cases are increasing.

R code:

```
plot(cases$ActiveRatio(%), cases$DischargeRatio(%), ylim= c(95,100), xlim= c(0,1), xlab= "ACTIVE RATIO", ylab= "DISCHARGE RATIO", main =" Active ratio and discharge ratio comparison", las=1, pch=4, col='red')
```

THANKS