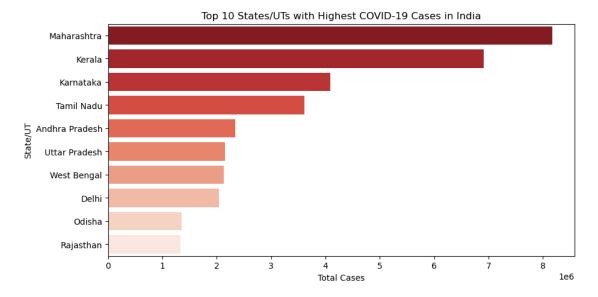
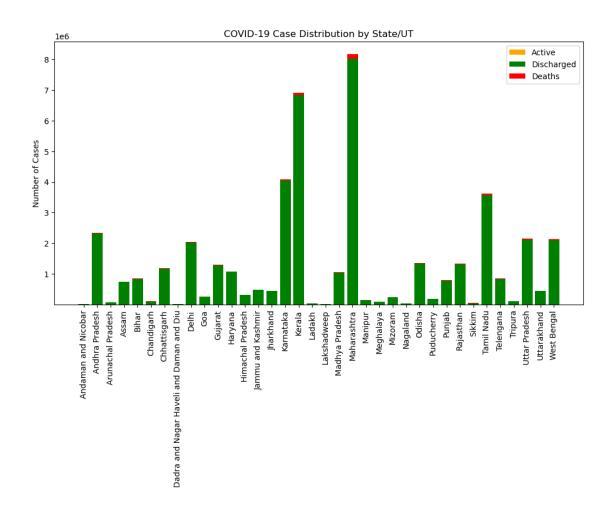
## My notebook

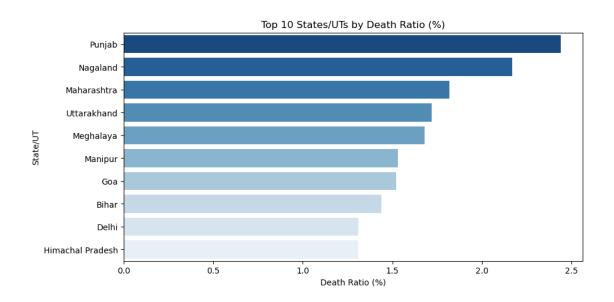
## August 15, 2025

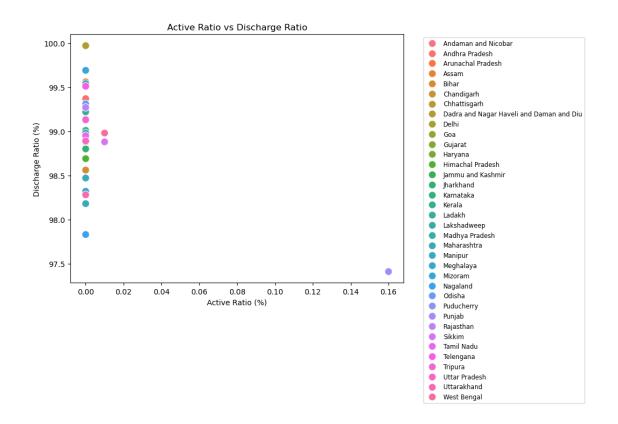
```
[5]: import pandas as pd
     import matplotlib.pyplot as plt
     import seaborn as sns
     # Load dataset
     file path = r"C:\Users\sahil\Downloads\latest Covid-19 India Status.csv.xlsx"
     data = pd.read_excel(file_path, sheet_name='Latest Covid-19 India Status')
     # Top 10 States by Total Cases
     plt.figure(figsize=(10,5))
     top_cases = data.sort_values(by="Total Cases", ascending=False).head(10)
     sns.barplot(x="Total Cases", y="State/UTs", data=top_cases, palette="Reds_r", u
      ⇔hue="State/UTs", legend=False)
     plt.title("Top 10 States/UTs with Highest COVID-19 Cases in India")
     plt.xlabel("Total Cases")
     plt.ylabel("State/UT")
     plt.show()
     # Active vs Discharged vs Deaths (Stacked Bar Chart)
     plt.figure(figsize=(12,6))
     states = data['State/UTs']
     plt.bar(states, data['Active'], label='Active', color='orange')
     plt.bar(states, data['Discharged'], bottom=data['Active'], label='Discharged', __
      ⇔color='green')
     plt.bar(states, data['Deaths'], bottom=data['Active'] + data['Discharged'], ___
      ⇔label='Deaths', color='red')
     plt.xticks(rotation=90)
     plt.ylabel("Number of Cases")
     plt.title("COVID-19 Case Distribution by State/UT")
     plt.legend()
     plt.show()
     # Death Ratio by State (Top 10)
```

```
plt.figure(figsize=(10,5))
top_death_ratio = data.sort_values(by="Death Ratio", ascending=False).head(10)
sns.barplot(x="Death Ratio", y="State/UTs", data=top_death_ratio,_
 →palette="Blues_r", hue="State/UTs", legend=False)
plt.title("Top 10 States/UTs by Death Ratio (%)")
plt.xlabel("Death Ratio (%)")
plt.ylabel("State/UT")
plt.show()
# Active Ratio vs Discharge Ratio (Scatter Plot)
plt.figure(figsize=(8,6))
sns.scatterplot(x="Active Ratio", y="Discharge Ratio", hue="State/UTs", u
 ⇔data=data, s=100)
plt.title("Active Ratio vs Discharge Ratio")
plt.xlabel("Active Ratio (%)")
plt.ylabel("Discharge Ratio (%)")
plt.legend(bbox_to_anchor=(1.05, 1), loc='upper left', fontsize='small')
plt.show()
# Pie Chart - Top 10 States by Total Cases
plt.figure(figsize=(8,8))
plt.pie(top_cases["Total Cases"], labels=top_cases["State/UTs"], autopct='%1.
 →1f\\\\\', startangle=140)
plt.title("Share of Total COVID-19 Cases in Top 10 States/UTs")
plt.show()
```

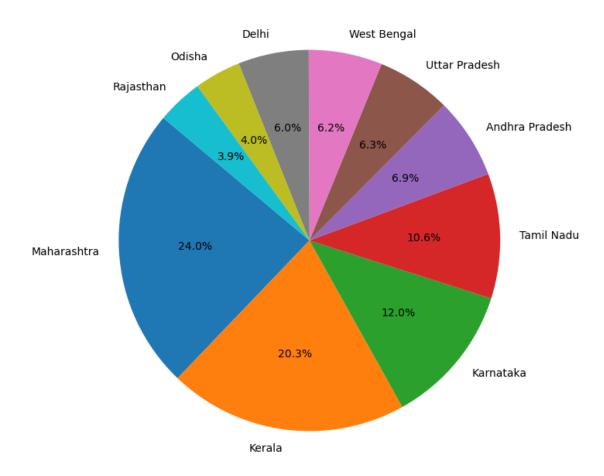








## Share of Total COVID-19 Cases in Top 10 States/UTs



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