import numpy as np
import pandas as pd

data = pd.read_csv("covid_19_india.csv")
data.head()

	Sno	Date	Time	State/UnionTerritory	ConfirmedIndianNational	Confir
0	1	2020- 01-30	6:00 PM	Kerala	1	
1	2	2020- 01-31	6:00 PM	Kerala	1	
2	3	2020-	6:00	Kerala	2	•

data.head(10)

	Sno	Date	Time	State/UnionTerritory	ConfirmedIndianNational	Confir
0	1	2020- 01-30	6:00 PM	Kerala	1	
1	2	2020- 01-31	6:00 PM	Kerala	1	
2	3	2020- 02-01	6:00 PM	Kerala	2	
3	4	2020- 02-02	6:00 PM	Kerala	3	
4	5	2020- 02-03	6:00 PM	Kerala	3	
5	6	2020-	6:00	Kerala	3	>

data.tail(10)

		Sno	Date	Time	State/UnionTerritory	ConfirmedIndianNational
	18100	18101	2021- 08-11	8:00 AM	Puducherry	-
	18101	18102	2021- 08-11	8:00 AM	Punjab	-
data.	count()					
	Sno Date Time State/U	InionTer	ritory		18110 18110 18110 18110	
	Confirm				18110	
	Confirm Cured	edForei	gnNati	onal	18110 18110	
	Deaths Confirm dtype:				18110 18110	
enc =	sklearn LabelE lotlib	ncoder(g impo	rt LabelEncoder	
impor	t matpl	otlib.p	yplot	as plt		
len(d	ata)					
	18110					
len(d	ata.col	umns)				
	9					
impor	t seabo	orn as s	ins			
state	wise =	pd.pivc	t_tabl	e(data	, values=['Confirmed',	'Deaths','Cured'],index= 'State/Unior
state state	wise['M wise =	lortalit statewi	y Rate .se.sor	- '] = s t_valu		

M	/ 31 301	BDA-Assg	1.ipynb - Co	laboratory	1 377:1:19	
Madhya Pradach***	701656				1.327333	•
Madhya Pradesh***	791656	780735	10506	98.620487	1.327092	
Haryana	770114	759790	9652	98.659419	1.253321	
Bihar	725279	715352	9646	98.631285	1.329971	
Bihar***	715730	701234	9452	97.974655	1.320610	
Telangana	650353	638410	3831	98.163613	0.589065	
Punjab	599573	582791	16322	97.201008	2.722271	
Assam	576149	559684	5420	97.142232	0.940729	
Telengana	443360	362160	2312	81.685312	0.521472	
Jharkhand	347440	342102	5130	98.463620	1.476514	
Uttarakhand	342462	334650	7368	97.718871	2.151480	
Jammu and Kashmir	322771	317081	4392	98.237140	1.360717	
Himachal Pradesh	208616	202761	3537	97.193408	1.695460	
Himanchal Pradesh	204516	200040	3507	97.811418	1.714780	
Goa	172085	167978	3164	97.613389	1.838626	
Puducherry	121766	119115	1800	97.822873	1.478245	
Manipur	105424	96776	1664	91.796934	1.578388	
Tripura	80660	77811	773	96.467890	0.958344	
Meghalaya	69769	64157	1185	91.956313	1.698462	
Chandigarh	61992	61150	811	98.641760	1.308233	
Arunachal Pradesh	50605	47821	248	94.498567	0.490070	
Mizoram	46320	33722	171	72.802245	0.369171	
Nagaland	28811	26852	585	93.200514	2.030474	
Sikkim	28018	25095	356	89.567421	1.270612	
Ladakh	20411	20130	207	98.623291	1.014159	
Dadra and Nagar Haveli and Daman and Diu	10654	10646	4	99.924911	0.037545	
Dadra and Nagar Haveli	10377	10261	4	98.882143	0.038547	
Lakshadweep	10263	10165	51	99.045114	0.496931	•

```
data['Active_Cases']=data['Confirmed']-(data['Cured']-data['Deaths'])
```

#Top 10 active cases state
Top_10_active_cases = data.groupby(by = 'State/UnionTerritory').max()[['Active_Cases','Data

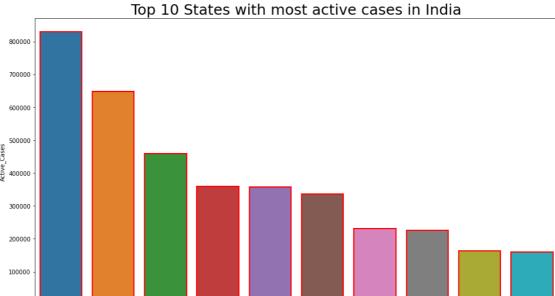
Top_10_active_cases.head()

Sta	te/UnionTerritory	Active_Cases	Date
0	Maharashtra	829727	2021-08-11
1	Karnataka	648383	2021-08-11
2	Kerala	458370	2021-08-11
3	Maharashtra***	359438	2021-07-21
4	Tamil Nadu	357936	2021-08-11

```
fig = plt.figure(figsize=(16,9))
plt.title("Top 10 States with most active cases in India", size =25)
ax= sns.barplot(data = Top_10_active_cases.iloc[:10],y = 'Active_Cases',x='State/UnionTerr
```

plt.xlabel('States') plt.ylabel('Deaths')

plt.show()



Active_Cases Uttar Pradesh Maharashtra Maharashtra*** Andhra Pradesh State/UnionTerritory Top_10_highest_deaths= data.groupby(by = 'State/UnionTerritory').max()[['Deaths','Date']]. fig = plt.figure(figsize=(16,9)) plt.title("Top States with Highest Deaths", size=25)

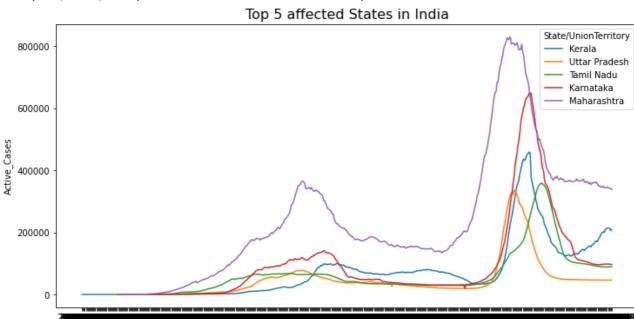
ax= sns.barplot(data = Top_10_highest_deaths.iloc[:12], x='State/UnionTerritory',y='Deaths

Top States with Highest Deaths

fig= plt.figure(figsize=(12,6))

ax = sns.lineplot(data= data[data['State/UnionTerritory'].isin(['Maharashtra','Karnataka',
ax.set_title("Top 5 affected States in India", size=16)

Text(0.5, 1.0, 'Top 5 affected States in India')



Date

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