

```
In [18]: #Importing libraries
import matplotlib.pyplot as plt
import pandas as pd
import seaborn as sns
import numpy as py
```

```
In [19]: #Read csv file
df_crime=pd.read_csv("crimerates-by-state-2005.csv")
```

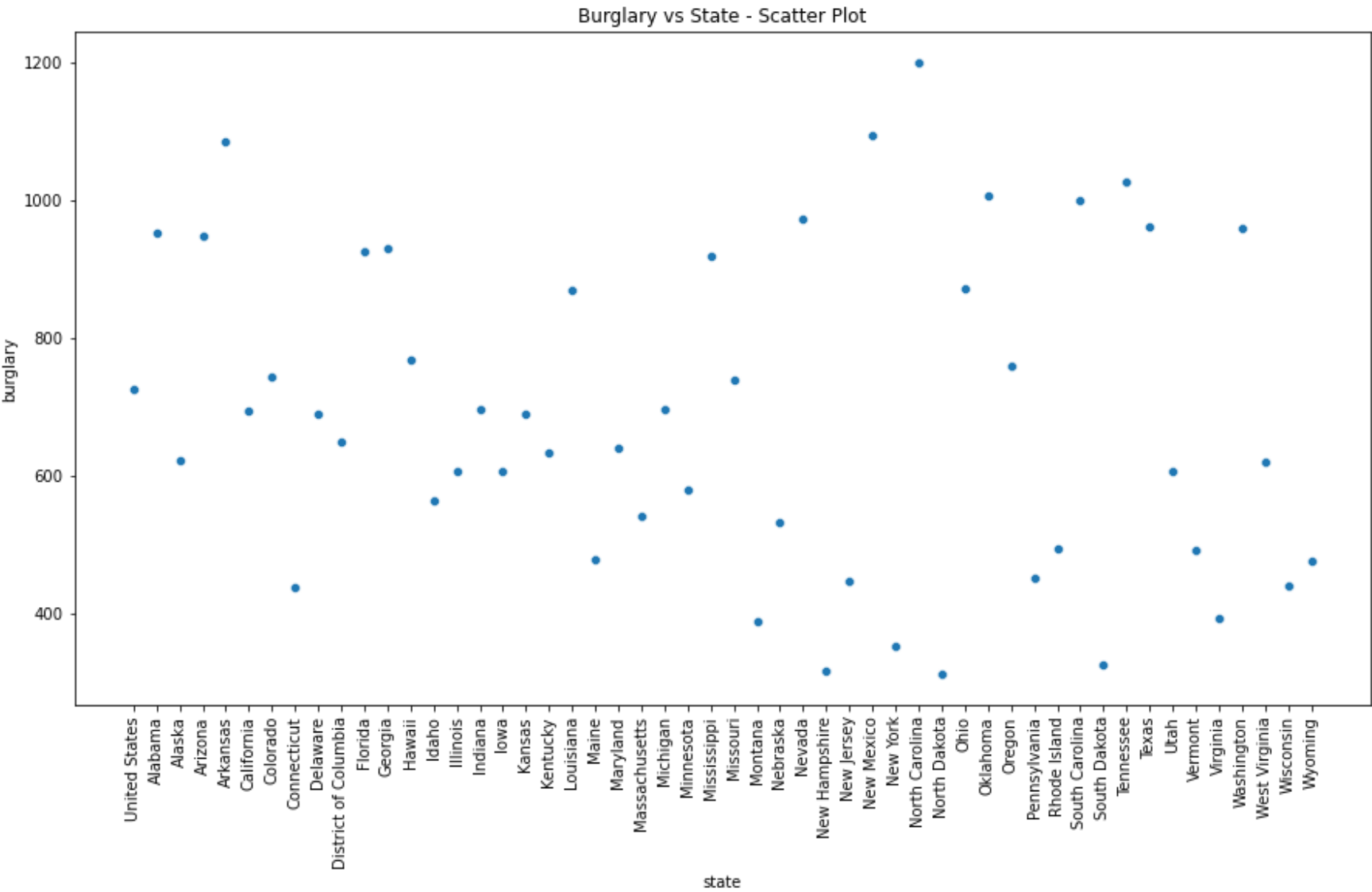
```
In [20]: df_crime.head()
```

Out[20]:

	state	murder	forcible_rape	robbery	aggravated_assault	burglary	larceny_theft	motor_vehicle_theft	population
0	United States	5.6	31.7	140.7	291.1	726.7	2286.3	416.7	295753151
1	Alabama	8.2	34.3	141.4	247.8	953.8	2650.0	288.3	4545049
2	Alaska	4.8	81.1	80.9	465.1	622.5	2599.1	391.0	669488
3	Arizona	7.5	33.8	144.4	327.4	948.4	2965.2	924.4	5974834
4	Arkansas	6.7	42.9	91.1	386.8	1084.6	2711.2	262.1	2776221

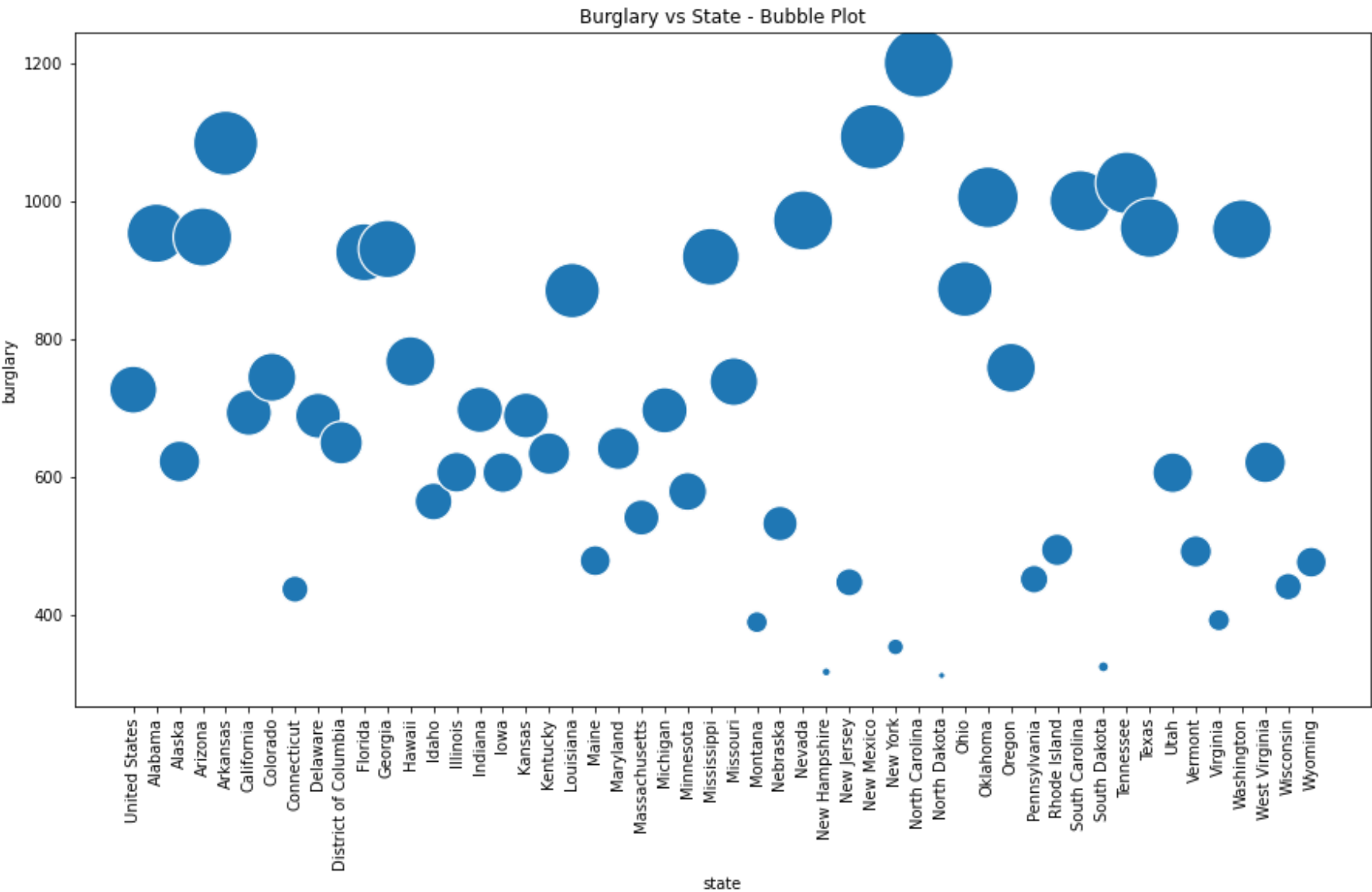
Scatter Plot

```
In [21]: plt.figure(figsize=(15,8))
ax=sns.scatterplot(data=df_crime,x="state",y="burglary").set(title="Burglary vs State - Scatter Plot")
locs,labels=plt.xticks()
plt.setp(labels,rotation=90)
plt.show()
```



Bubble Plot

```
In [22]: plt.figure(figsize=(15,8))
ax=sns.scatterplot(data=df_crime,x="state",y="burglary", size="burglary",legend=False,sizes=(20,2000)).set(title="Burglary vs State - Bubble Plot")
locs,labels=plt.xticks()
plt.setp(labels,rotation=90)
plt.show()
```



Density Plot

```
In [11]: plt.figure(figsize=(15,8))
sns.displot(x=df_crime["burglary"],kde=True).set(title="Burglary - Density Plot")
locs,labels=plt.xticks()
plt.setp(labels,rotation=90)
plt.show()
```

