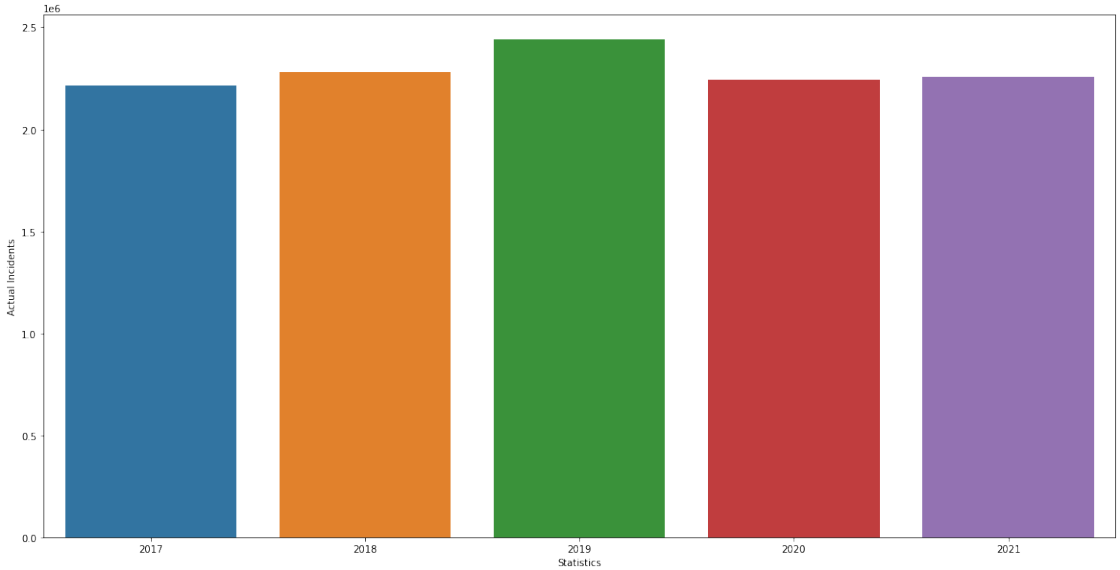
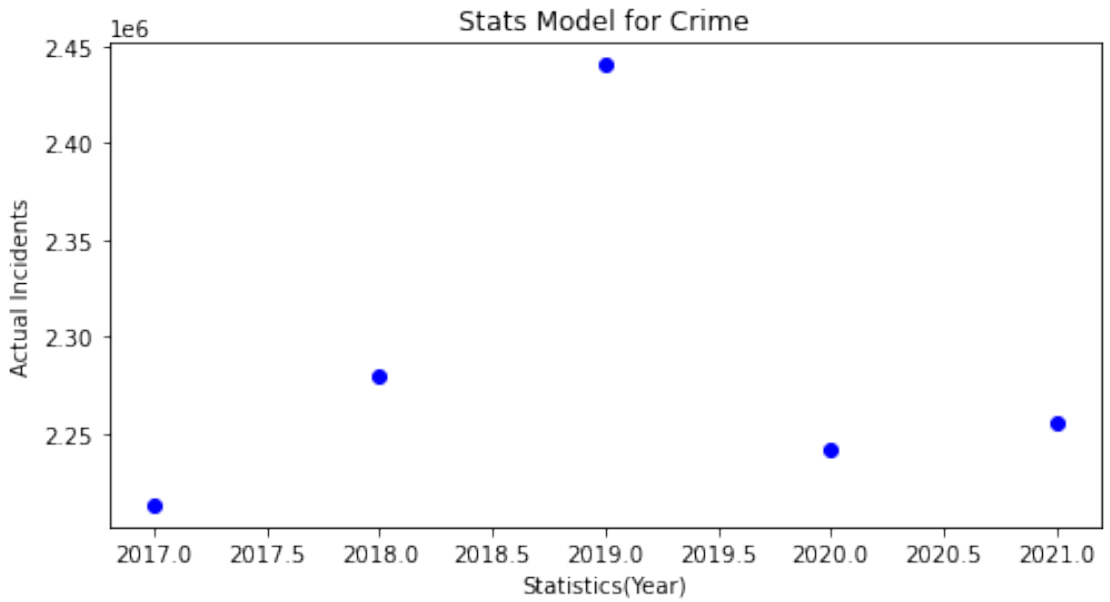
```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt #By Anoje Janathanan

crime = pd.read_csv('Stats Canada Crime.csv') #Removed access data
from csv, focused only on Statistics (Year) and no. of actual
incidents to make it less complex for audience
crime.head()
```

	Statistics	Actual Incidents	Unnamed: 2
0	2017	2213293.0	NaN
1	2018	2280328.0	NaN
2	2019	2440496.0	NaN
3	2020	2242459.0	NaN
4	2021	2255363.0	NaN

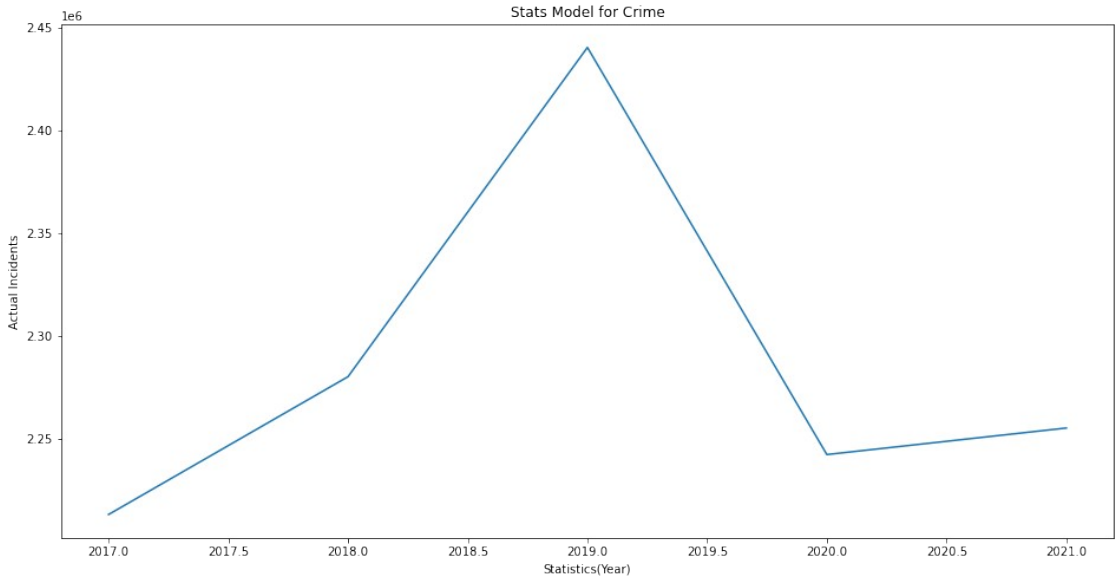
```
plt.figure(figsize=(20, 10))

sns.barplot(  # Bar Chart (1)
    x='Statistics',
    y='Actual Incidents',
    data = crime.drop(labels=['Unnamed: 2'],axis=1)
);
```



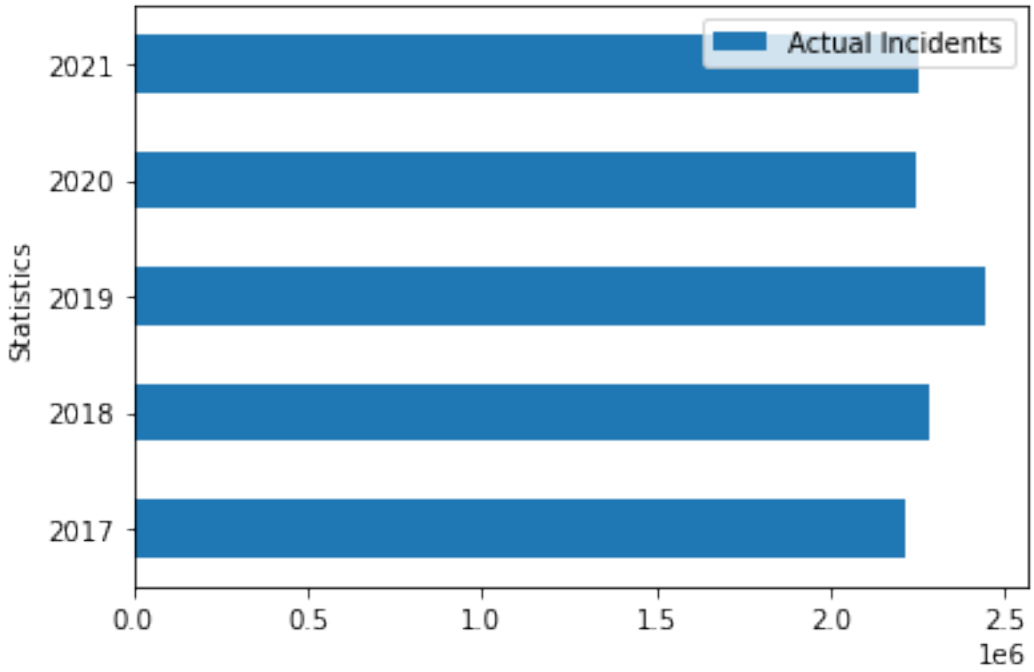

```
plt.figure(figsize=(8,4))
plt.title('Stats Model for Crime') #Scatter plot
plt.xlabel('Statistics(Year)')
plt.ylabel('Actual Incidents')

plt.scatter(crime['Statistics'], crime['Actual
Incidents'],color="blue")
plt.show()
```




```
#Line graph
plt.figure(figsize=(16,8))
plt.title('Stats Model for Crime')
plt.xlabel('Statistics(Year)')
plt.ylabel('Actual Incidents')
plt.plot(crime['Statistics'], crime['Actual Incidents'])
plt.show()
```




```
crime_cleandata = crime.drop(labels=['Unnamed: 2'],axis=1)
ax = crime_cleandata.plot.barh(x='Statistics', y='Actual Incidents')
#Horizontal Bar Chart
```


Actual Incidents
2021
2020
2019
2018
2017
Statistics
0.0
0.5
1.0
1.5
2.0
2.5
1e6