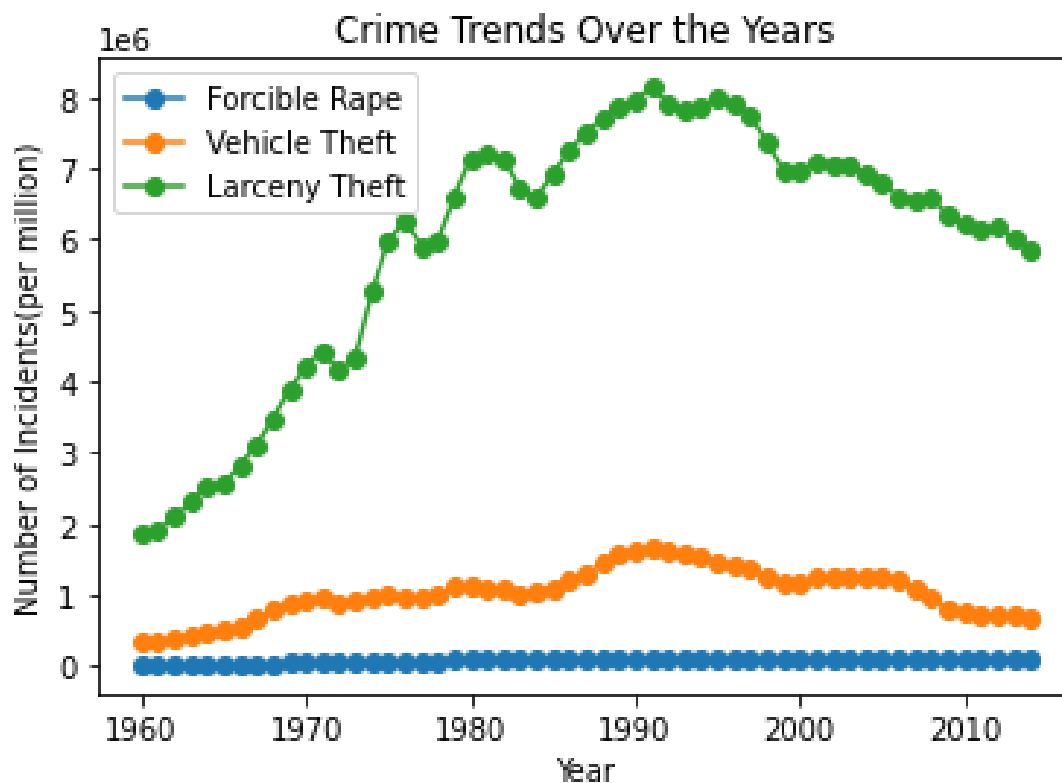


Crime rate of US from 1960 to 2014

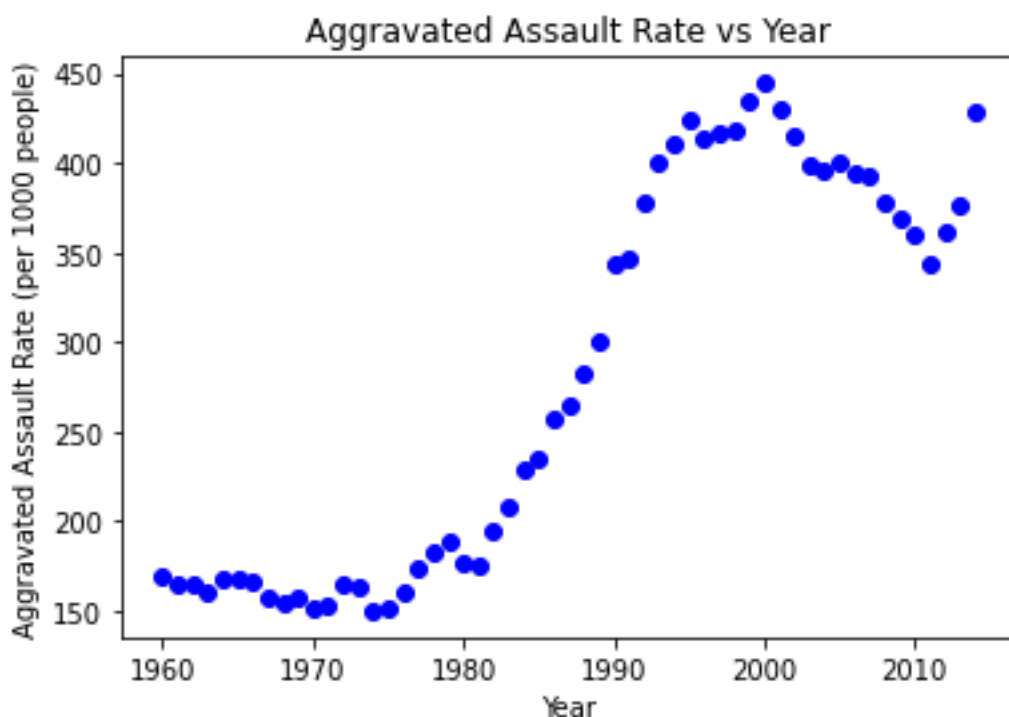
1. Line plot



A Line plot is best way to display the visibility of graph, clear with accurate series of time. It shows the how the data has changed over time within the years. The data set which have been chosen has continuous variables, help to study, compare and get the outcome within the years.

The graph above display the crime occurred in United States from 1960 to 2014. The crime data is compared and studies over the 50 years. In the graph three main crimes are studied i.e. forcible rape, vehicle theft and larceny theft. As shown in the graph larceny theft is high in crime scene. In 1960 larceny theft was 2 million incident reported and gradually increased 1990 reported more than 8 million incident. However, the crime has decreased by the year 2014. On the other hand, the vehicle theft was around half millions, however it has fluctuated over the years. Similarly, forcible rape incident has been reported less likely in comparison to other crimes.

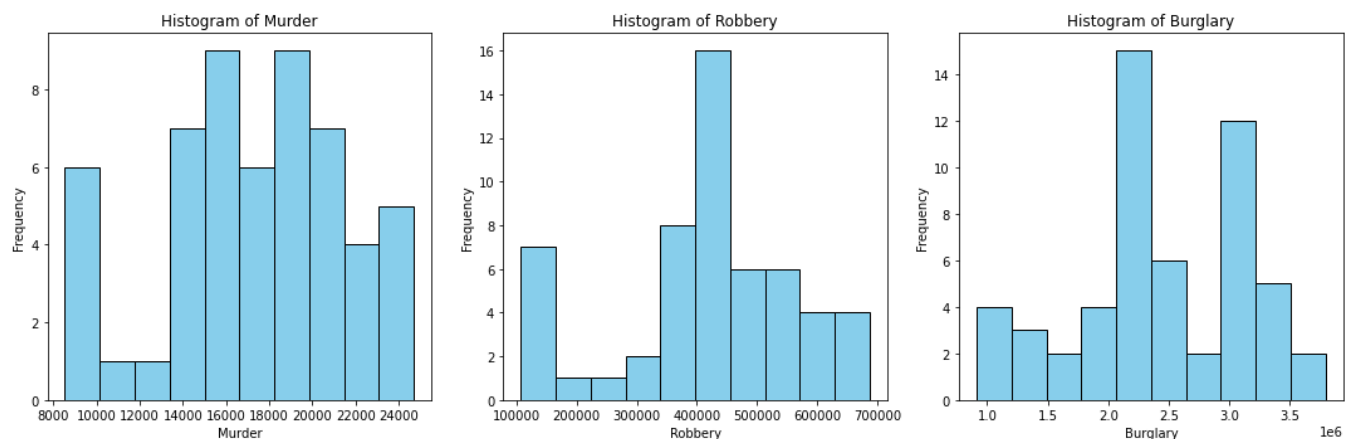
2. Scatter plot



The above given graph has been presented in scatter plot. The diagram is represented the attacks of incidents in US from the year 1960 to the year 2014. The scatter graph identify the trends and the patterns of the data given years.

The above data represents aggravated assaults incidents occurred in United States in the year 1960 to 2014. In 1960 the about 170 people reported attack whereas unexpectedly increased in the year 2000 where for about 450 people have reported about it. On the other hand the people facing molestation has fluctuated around the year 2000.

3. Histogram plot



The above figure represents in histogram graph. The data is presented in histogram as to give clear visual and understanding of a data. The above graph gives a quick presentation of graph of high and low ranges of data. The data in histogram can be studies easily as it gives a clear visual of bins presented in it.

The above histogram represents crime occurred i.e. murder, robbery and burglary. The most occurred incident is robbery as 400000 people has reported of it. On the other hand, the most occurred violation is murder incident. Similarly, burglary crime has been reported less likely in US. However, the data presents the crime in US are reported and occurred most likely in people lives.

Reference:

Dataset link: <https://www.kaggle.com/datasets/mahmoudshogaa/us-crime-rates-1960-2014/code>

Repository link:

<https://github.com/harimagar/Applied-data-science-1-assignment/blob/main/ADS1.py>