Prakhar Saxena

Professor Bhupesh Shetty

INFO 250 – 001

November 11, 2020

Project 2B

I have published my tableau workbook on Tableau’s public server. There a lot of sheets there which may or may not be interesting to you, but I added them there because they helped me create the Dashboards.

<https://public.tableau.com/profile/prakhar.saxena7174#!/vizhome/Project2B_16059740584040/Dashboard2>

**Temperature and Crime Vs Months (split by UCR part categorisation)**

A close up of a map

Description automatically generated

A close up of a map

Description automatically generated

For all these graphs, I use attributes Temperature, Count(Incident) and Date. I can observe a strong correlation between the Temperature and the Incident Count. The number of incidents increases when the temperature rises.

I also split the graphs by the UCR categorisation. I did that to get a better picture, and to eliminate the fact that, one type of crime, being the majority, might affect the other types. To support this theory, I also computed the R-squared values for each category. R-squared (R2) for Part I, Part II, Part III are 0.48, 0.31, 0.18, respectively. These, considering real-world independent sources of data, are pretty high.

**Incidents vs Month**

A flock of white map

Description automatically generated

This graph uses just two attributes, Count(incidents) and Date.

This graph can be used to see if there’s a trend in the incident occurrence based on the time of the year. The finding could be related to the season, temperature, or in some extreme and unlikely cases even the local culture.

I used this graph to understand whether there’s a trend in the incident occurrence based on the what time of year it is. The finding from this data could be related to the season, temperature, or in some extreme and unlikely cases even the local culture.

From this chart, we can observe that the crime sees a dip during December, January and February; and peaking in July, August, and September. Now, I could conclude from this, stating that there is a correlation between months in a year and the crime incidents.

**Top 20 Offenses by Types**

A close up of a logo

Description automatically generated

This graph just uses two attributes, the Offense Code Group and Count(Incident). It’s a very straight-forward graph, it displays the top 20 offences in the city of Boston, regardless of their categories. I can observe that the Motor Vehicle Accident is the most common incident.

**Shooting**

A screenshot of a cell phone

Description automatically generated

This graph tells us about the number of shootings, categorized by the Offense Code Groups. This tells us which type of incidents had the greatest number of shootings.