Dhairav Chhatbar

Data 608

Final Project Proposal

The year 2020 has been definitely a unique year around the world there were so many issues occurring concurrently such as the COVID-19 pandemic, racial injustice protest, climate change activism, etc.

For the final project I would like to focus on the Black Lives Matter (BLM) racial injustice movement. There is a split consensus across the country on the "peacefulness" of the protests that have resulted from this movement. The two diverging consensus points have been that a portion of the country believes that these are peaceful protests and another part believes that these are not peaceful protests and is riddled by looting and anti-law enforcement sentiment.

It is true that there has been looting and violence in these protests, however to claim that the BLM movement itself is riddled by looting is an opinion. I would like to see if we can confirm if we can get a better understand of this sentiment backed and based on data.

According to Wikipedia (https://en.wikipedia.org/wiki/George_Floyd_protests_in_New_York_City) in New York City BLM protests occurred on the following dates:

5/28/2020	6/2/2020	6/8/2020	6/14/2020
5/29/2020	6/3/2020	6/9/2020	6/23/2020 - 6/30/2020
5/30/2020	6/4/2020	6/10/2020	
5/31/2020	6/4/2020 - 6/5/2020	6/11/2020	
6/1/2020	6/7/2020	6/12/2020	

These dates can be checked for arrests records to confirm the amount of violence/looting.

NYPD Arrest Data (Year to Date): https://data.cityofnewyork.us/Public-Safety/NYPD-Arrest-Data-Year-to-Date-/uip8-fykc

NYPD Arrests Data (Historic): https://data.cityofnewyork.us/Public-Safety/NYPD-Arrests-Data-Historic-/8h9b-rp9u

The questions that I would like to get insight on are:

- Does the data show an increase in arrests to support this claim?
- Compared to other previous years is there an increase in arrest patterns?
- Generally, what does crime in NYC look like data-wise?

In order to help facilitate these I may represent the project in either R or Python with the below technologies for each:

R: Native R plots, GGplot, Shiny, Plotly, Socrata
Python: Native Python plots, Datashader, Dash, Socrata