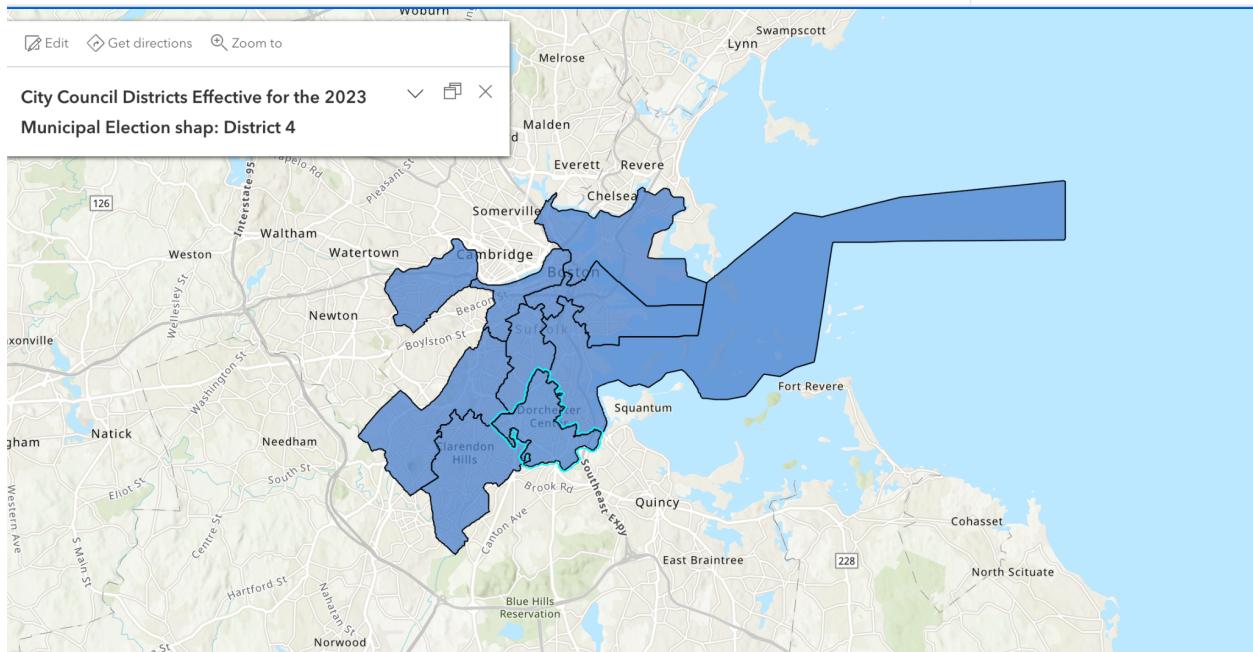


For Deliverable 1, we focused on the following question

- What is the rate of gun violence in District 4? How does this compare to the rest of the city?
- Are there patterns of violence in terms of location in District 4? How does this compare to the rest of the city?

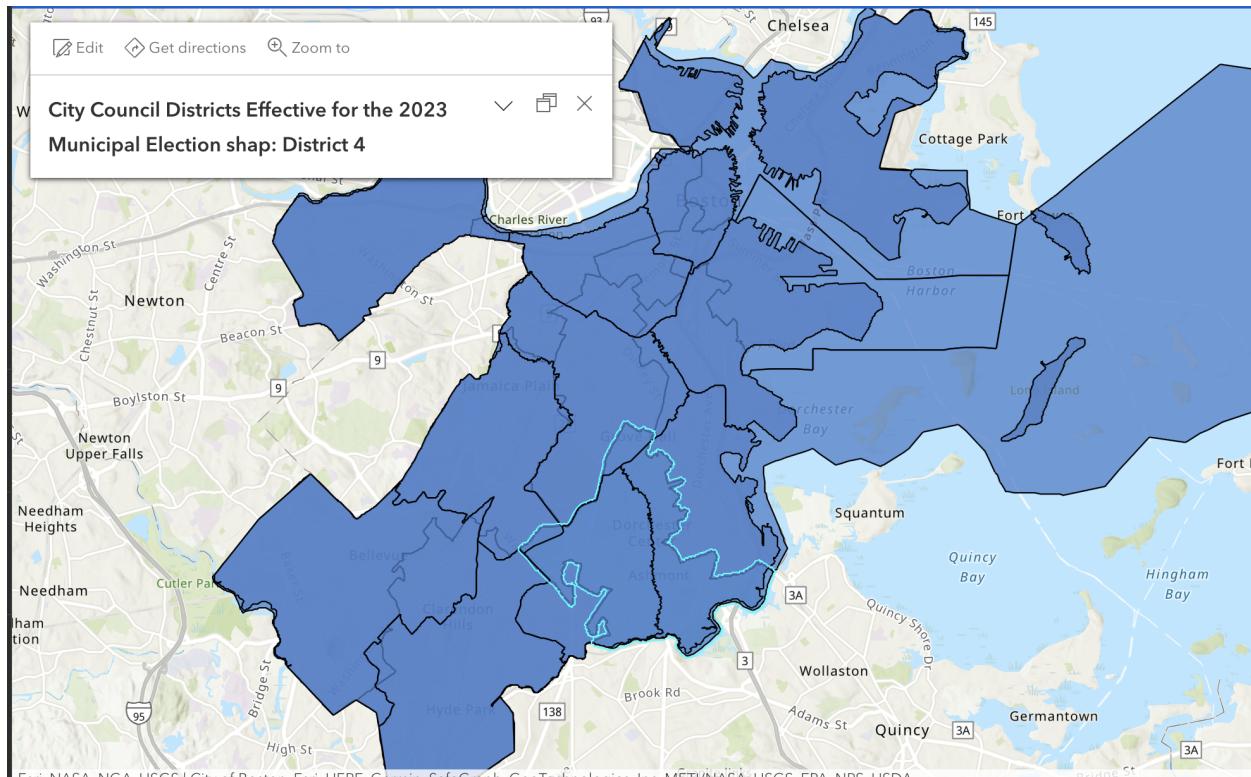
We worked with the following data:

1. Districts for City Council [Shapefile](#)



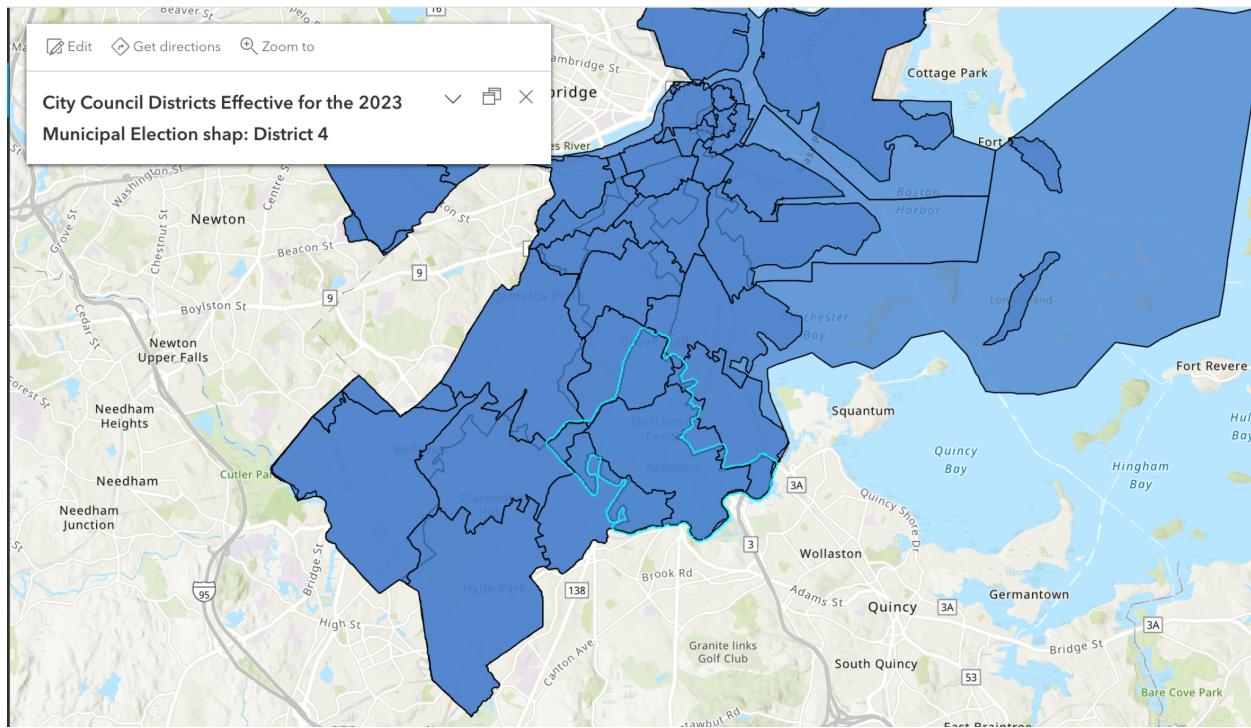
2. Police Records of Violence/Firearm Activity [Shots Fired](#) and [Shootings - Datasets - Analyze Boston](#) (Patrick)
3. Police report: [Crime Incident Reports - Datasets - Analyze Boston](#) (Snigdha and Vaishnavi)
 - a. For 2,3, we looked at the [Boston City Police Districts shapefile](#) (2 ii)

- b. Overlapped the above shape file with the city council shape file



- c. We used the above 4 Police Districts (B3, C11, E13, B2) which overlap with city council district 4 to represent D4.
4. Police Presence: [BPD Field Interrogation and Observation \(FIO\) - Datasets - Analyze Boston \(Tarek\)](#)
- a. As the above data is shown on zipcodes, we looked at the [Boston City Zipcode shapefile](#)

- b. Overlapped the above with the city council shape file



- c. The overlapping zip codes are :
- 02124 (most of the district)
 - 02131
 - 02126
 - 02121
 - 02122

Patrick Wright:

- File for Deliverable 1: gun_violence_PatW.ipynb
- Worked with Police Records of Violence/Firearm Activity data
- Used [Shots Fired](#) and [Shootings - Datasets - Analyze Boston](#) and plotted the following
 - “Proportions of Shootings in District 4 vs. All Other Districts since 2015”
 - “Proportions of Shootings in Police Districts of District 4 since 2015”
 - “Proportions of Shots Fired in District 4 vs. All Other Districts”
 - “Proportions of Shots Fired in Police Districts of District 4 since 2015”

Snigdha Reddy Pulim:

- File for Deliverable 1: crime_patterns_per_PD_snigdha.ipynb
- Worked with Police reports data
- Used [Crime Incident Reports - Datasets - Analyze Boston](#) and plotted the following:
 - “no of crime reports by type of crime” for each of the 4 Police Districts, Boston City and all other districts
 - “Crime rate of each district/ Crime rate of Boston City for each type of crime” for each of the 4 Police Districts, Boston City and all other districts

- “no of crime reports (by type of crime) outside of each district against in the district”

Tarek Mourad:

- File for Deliverable 1: Field_Contacts_Data.ipynb
- Worked with the Police Presence data
- Used [BPD Field Interrogation and Observation \(FIO\) - Datasets - Analyze Boston](#) to plot:
 - Top 25 zip codes by the count of BPD contact

Vaishnavi Vadlamudi:

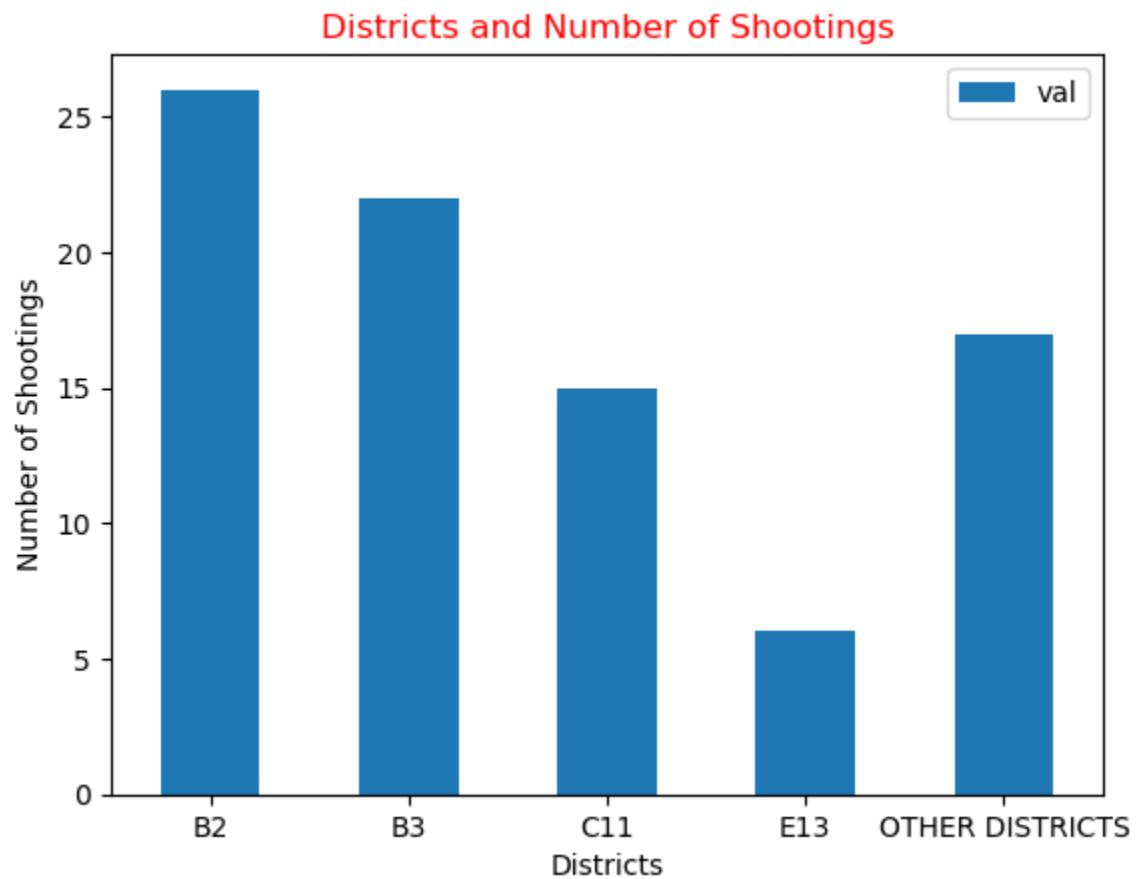
- File for Deliverable 1:
 - ReadingShapeFiles_Vaishnavi.ipynb
 - CrimeIncidentReport_Vaishnavi.ipynb
- Worked on [Shapefile](#) and plotted shapefiles in ReadingShapeFiles_Vaishnavi.ipynb
- Worked with Police reports data
- Used [Crime Incident Reports - Datasets - Analyze Boston](#) and plotted the following:
 - “Districts and Number of Shootings”
 - “District4 when compared to Other Districts”
 - “District 4 vs Number of Crimes”
 - “Districts and Number of Crimes”
 - “Ratio of Gun Crime”
 - “Ratio of Other Crime”
 - “Ratio of Gun Crime”
 - “Districts vs Gun Crimes over All Crimes”

Key Question:

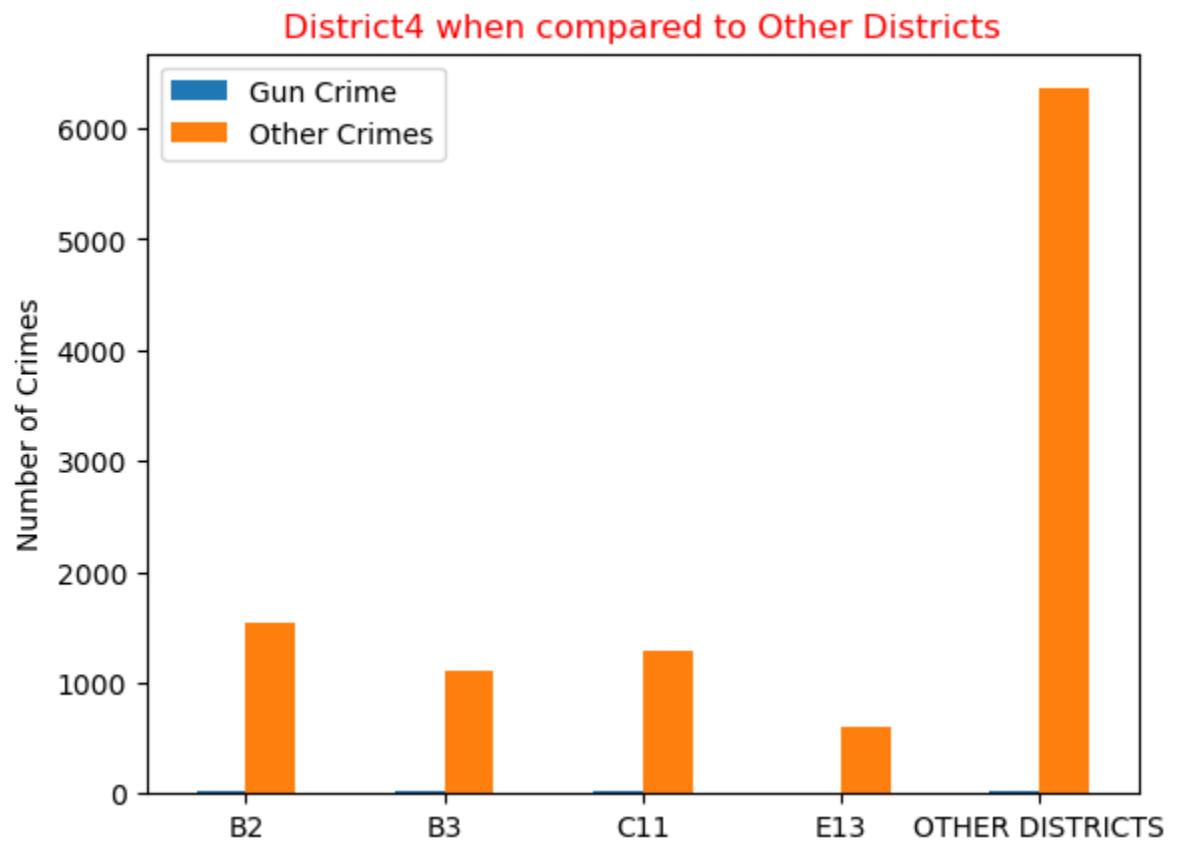
What is the rate of gun violence in District 4? How does this compare to the rest of the city?

- As shown in

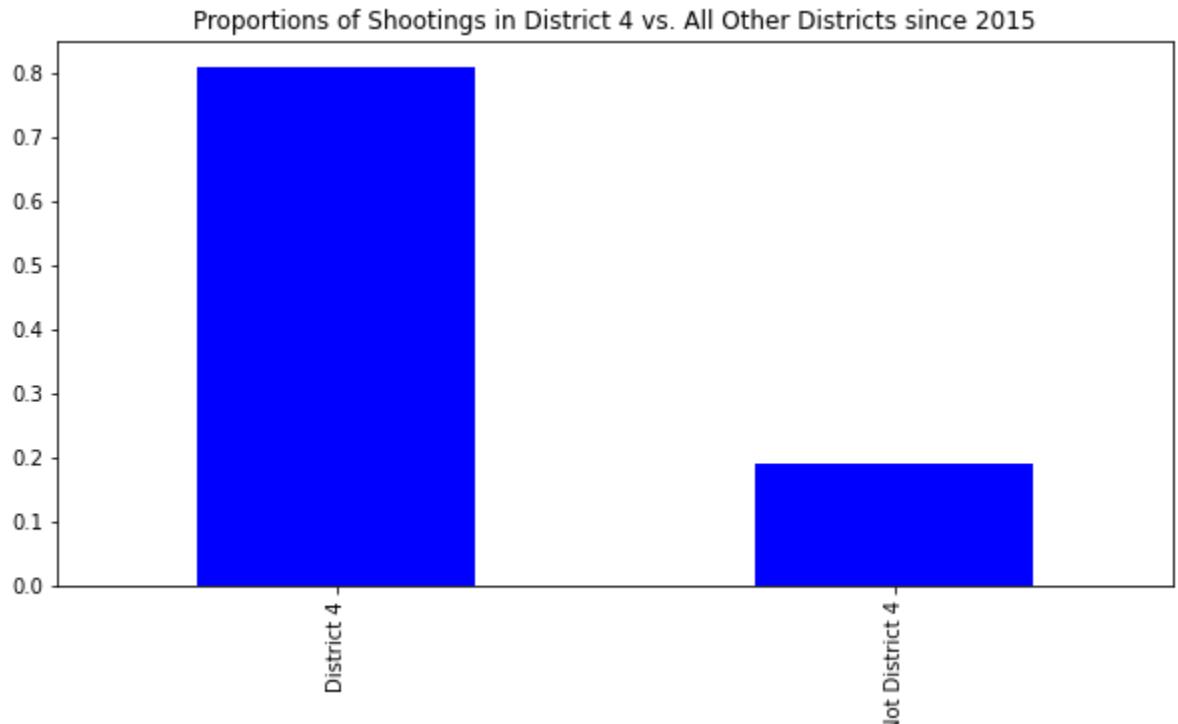
- Districts and Number of Shootings



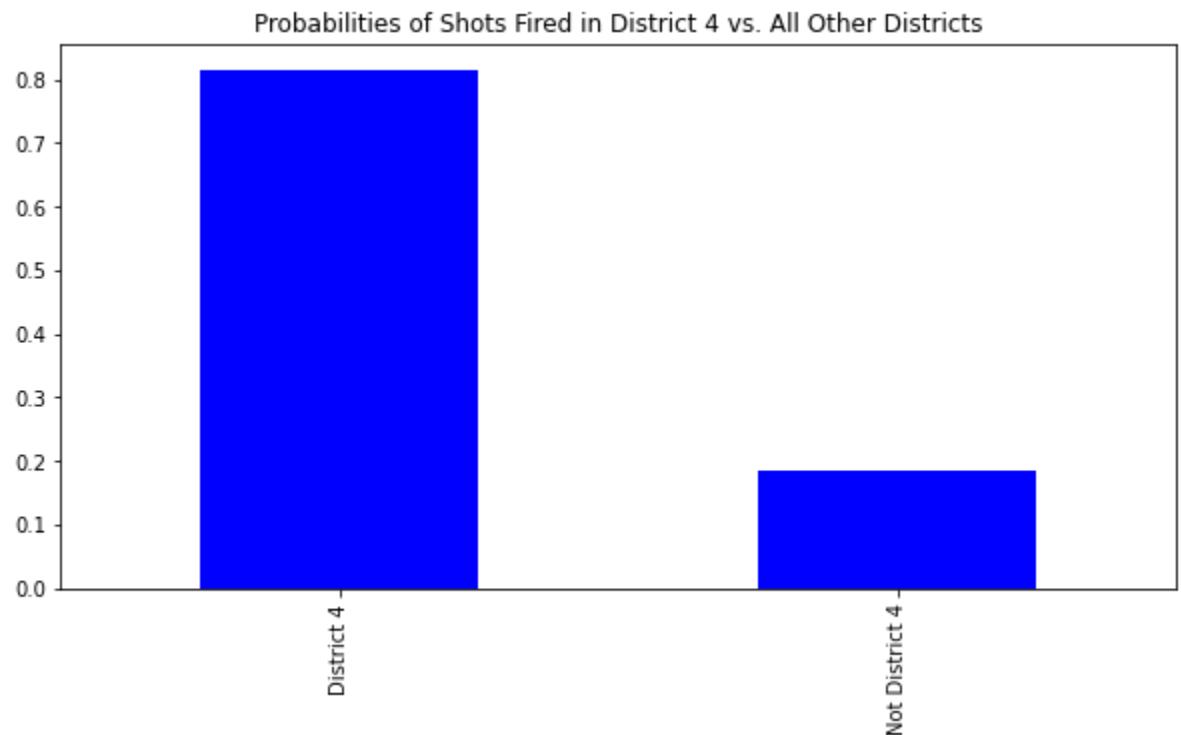
- District4 when compared to Other Districts



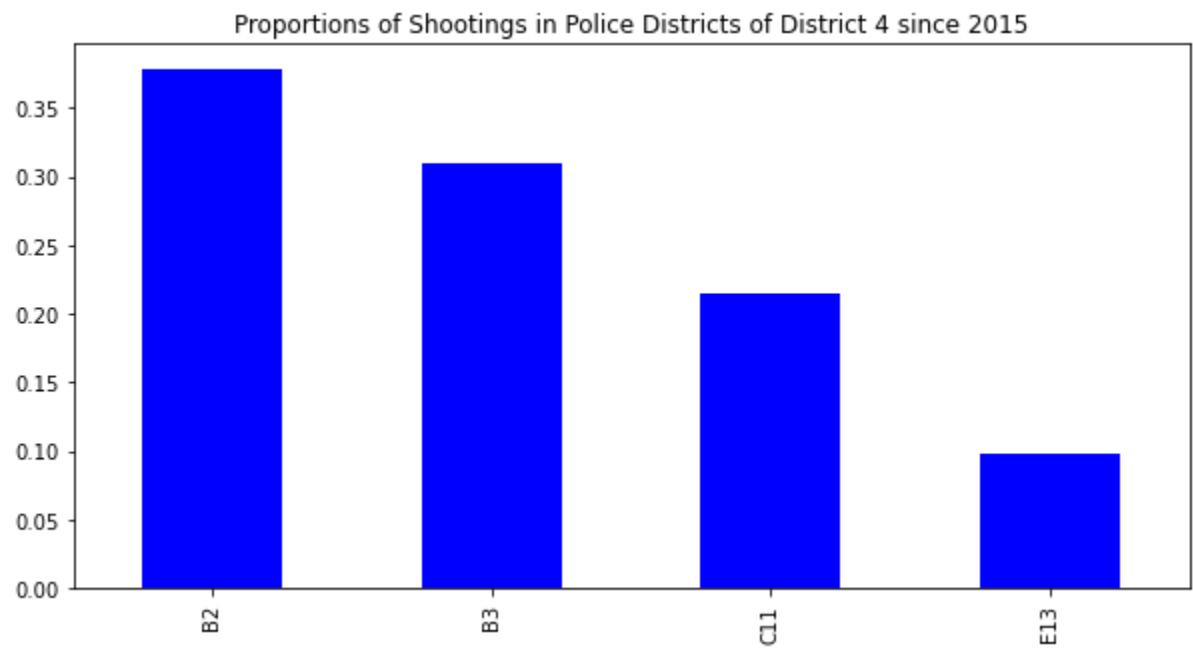
- Proportions of Shootings in District 4 vs. All Other Districts since 2015



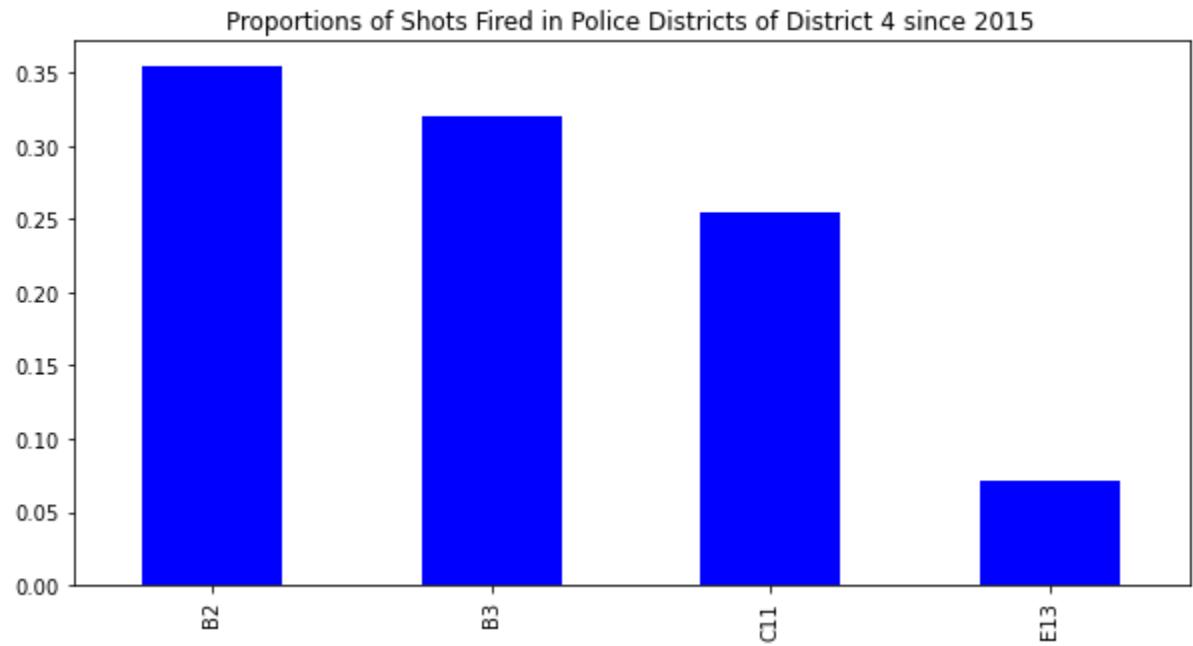
- Proportions of Shots Fired in District 4 vs. All Other Districts



- Proportions of Shootings in Police Districts of District 4 since 2015



- Proportions of Shots Fired in Police Districts of District 4 since 2015

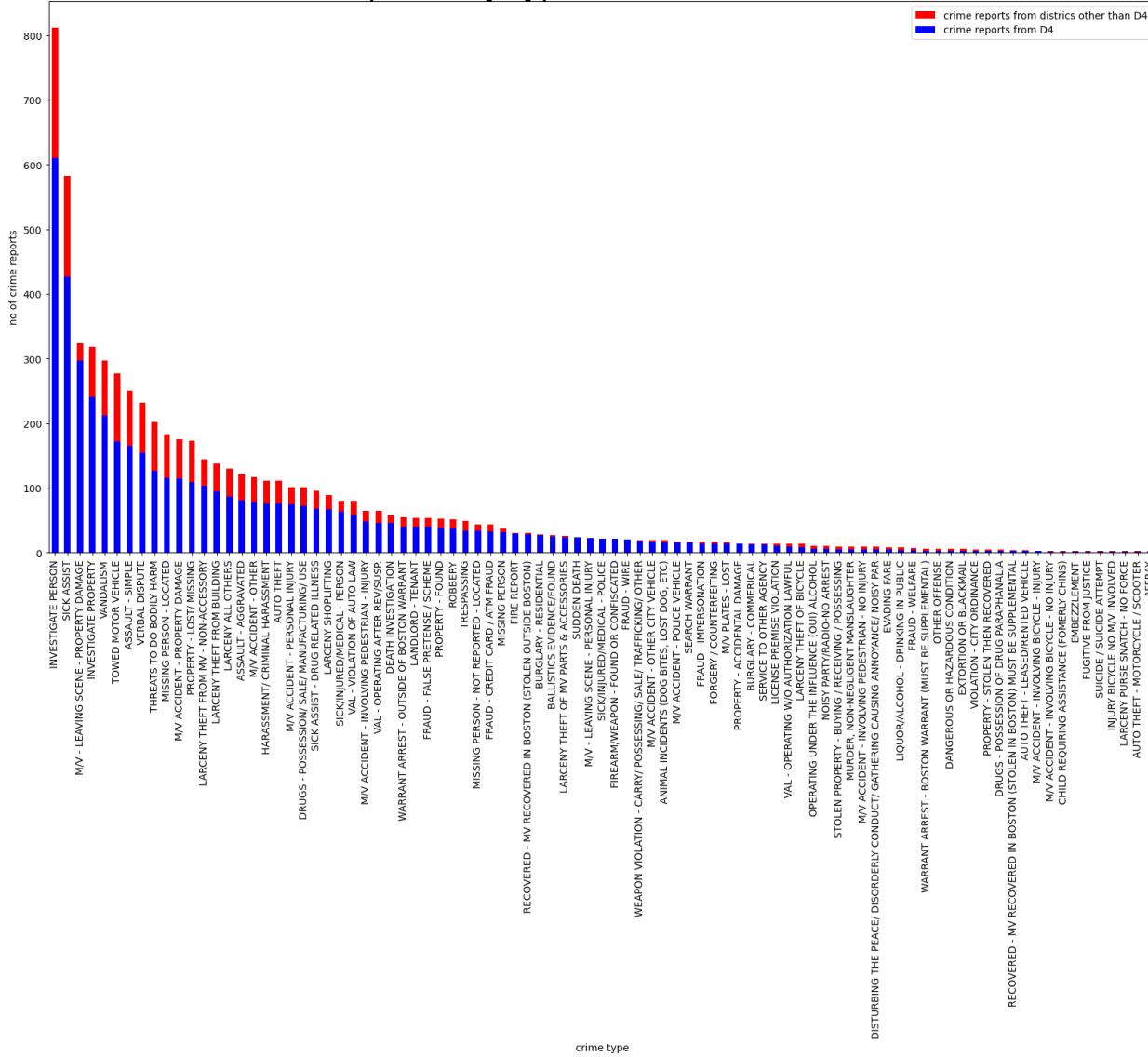


Are there patterns of violence in terms of location in District 4? How does this compare to the rest of the city?

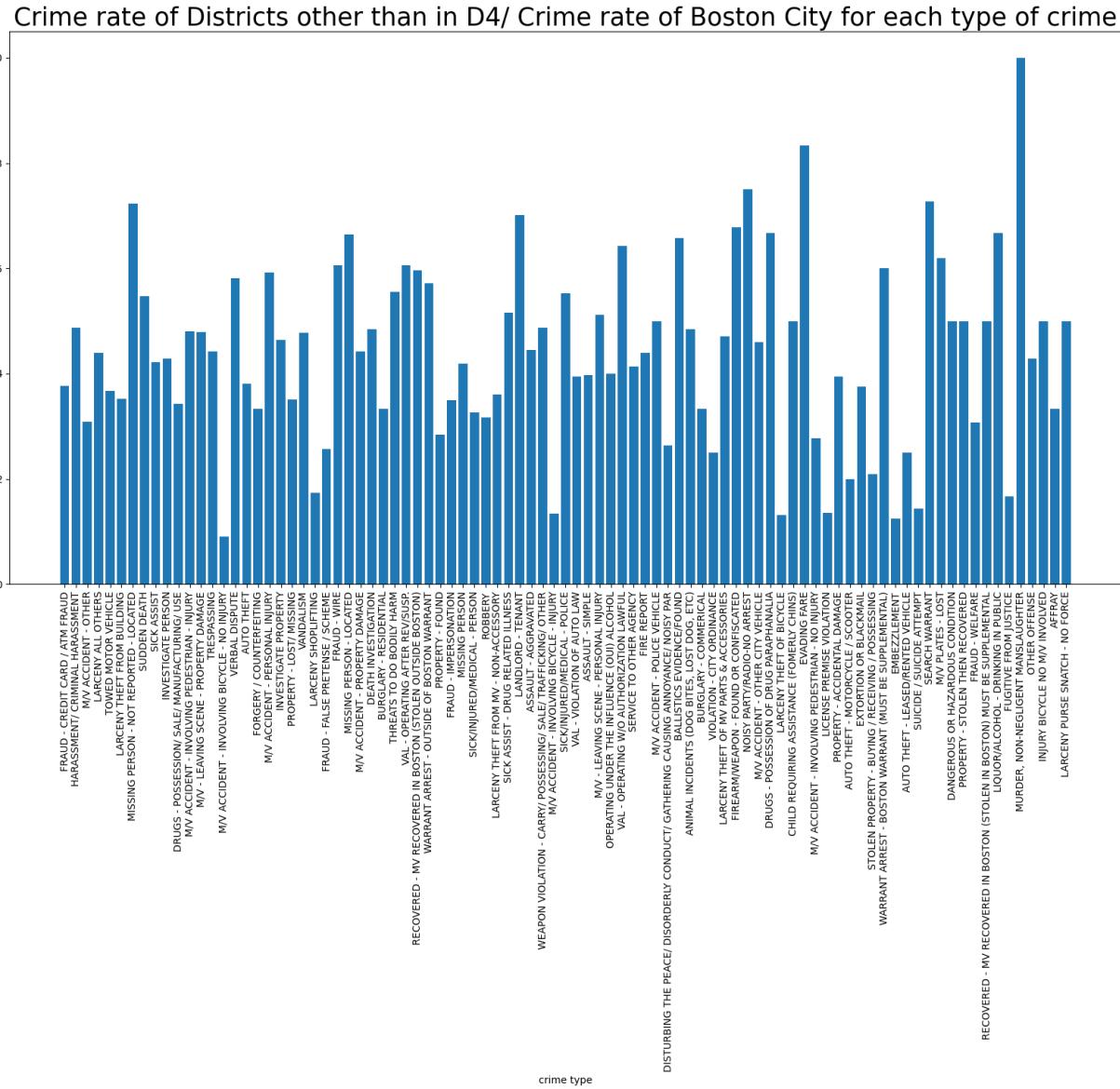
- As shown:

- "crime reports from districts other than D4", crime reports from D4"

no of crime reports (by type of crime) outside D4 and in D4



- “Crime rate of Districts other than in D4/ Crime rate of Boston City for each type of crime”



- And other graphs in crime_patterns_per_PD_snigdha.ipynb