

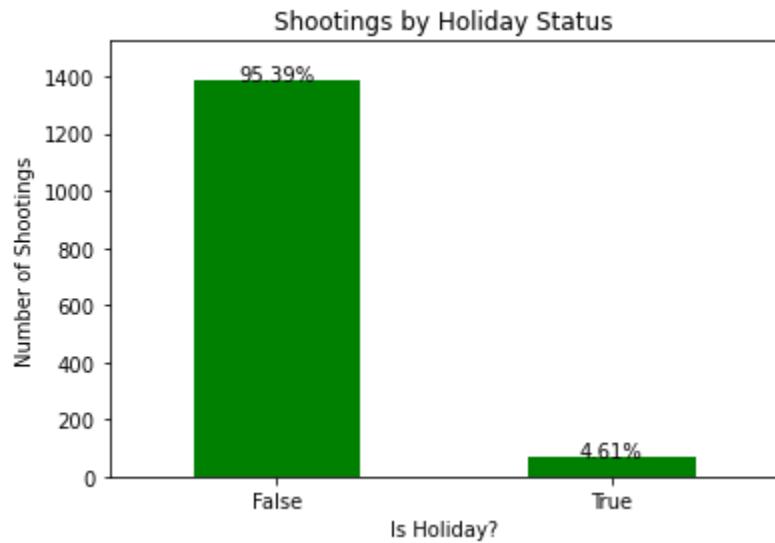
Deliverable 4 Report - Team 4

Introduction:

This report aims to document the changes made to the code in Deliverable 4 compared to Deliverable 3. Specifically, we will focus on four files: gun_violence_PatW.ipynb, TransportationGV.ipynb, ReadingShapeFiles.ipynb, and district_maps_with_crime_location.ipynb, which have been updated or added to.

File: gun_violence_PatW.ipynb (/code/gun_violence_PatW.ipynb):

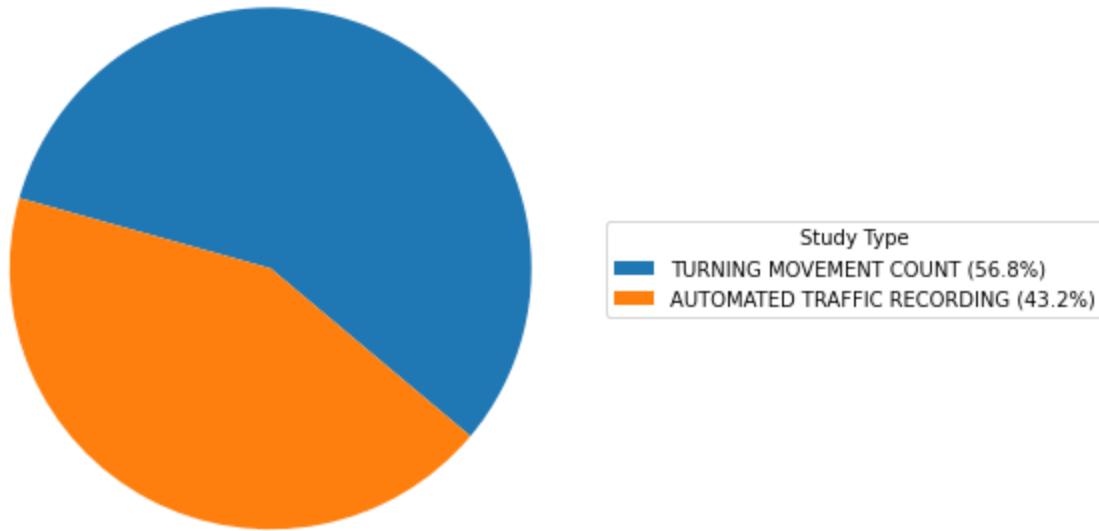
The code in gun_violence_PatW.ipynb remained mostly unchanged from Deliverable 2. However, an additional graph was added to the file to depict "Shootings by Holiday Status". This graph displays the percentage of shootings that occurred during holidays, which is 3.26%.



File: TransportationGV.ipynb (/code/TransportationGV.ipynb):

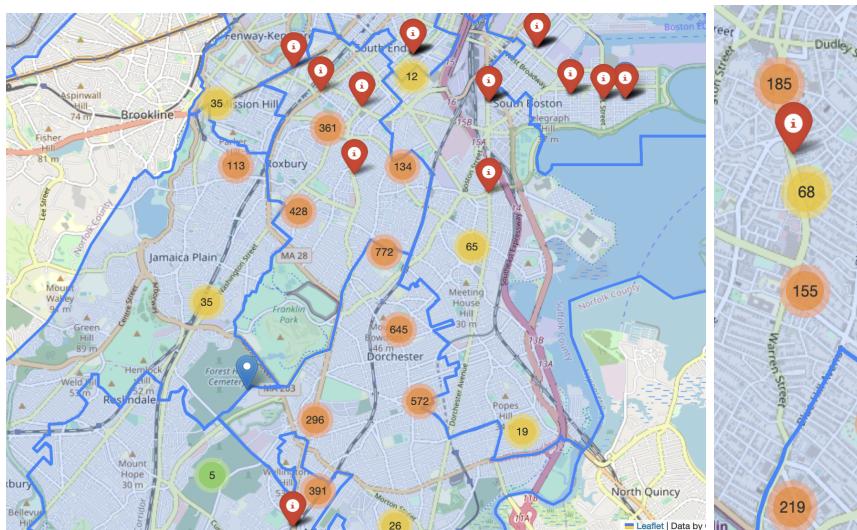
The code in TransportationGV.ipynb is similar to the file in Deliverable 3 with the same name. However, some updates were made to the "Percentage of Each Study Type" graph. Specifically, the graph now displays only two study types: "TURNING MOVEMENT COUNT" and "AUTOMATED TRAFFIC RECORDING".

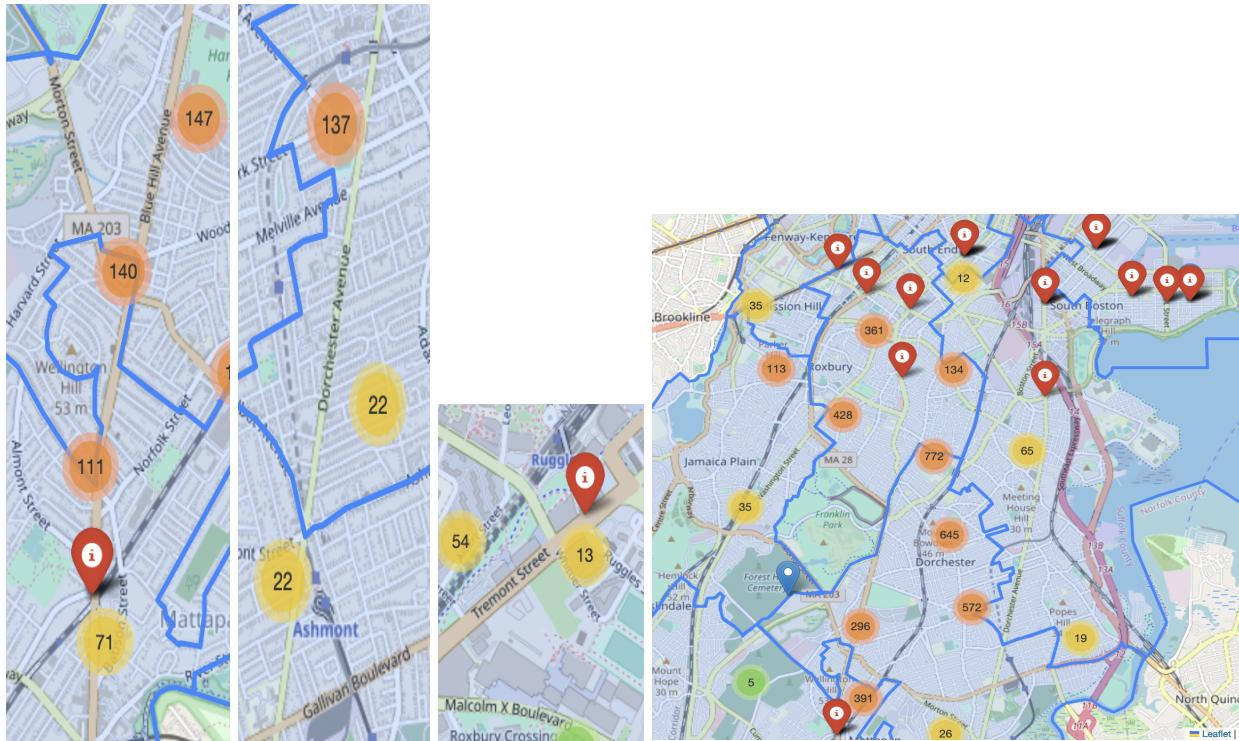
Percentage of Each Study Type



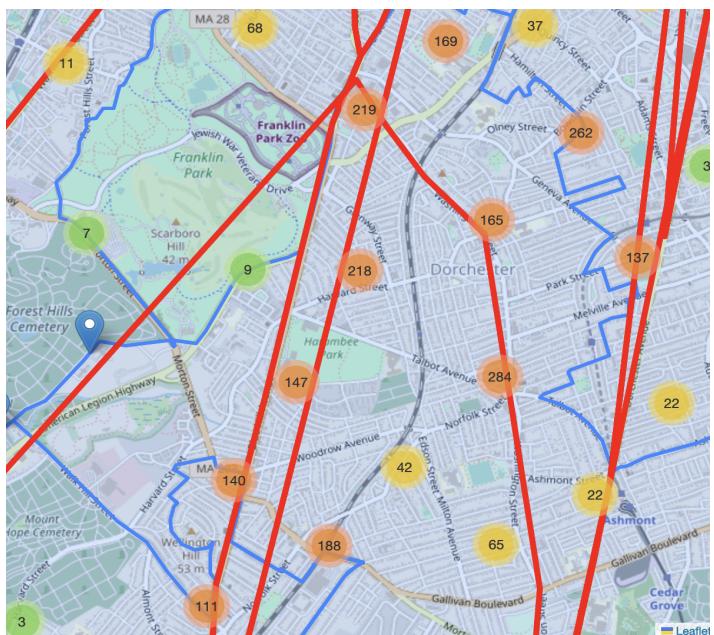
File: ReadingShapeFiles.ipynb (/code/ReadingShapeFiles.ipynb):

The ReadingShapeFiles.ipynb file has been updated by adding more maps to show the "Crime incident reports along the busy streets of district 4" and the "Crime incident reports in the busy streets." The addition of these maps provides a more detailed view of crime incidents in specific areas of the district, which can be helpful in identifying patterns or trends.





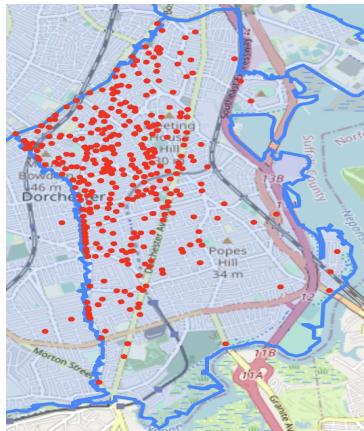
The above maps show “Crime incident reports in the busy streets”



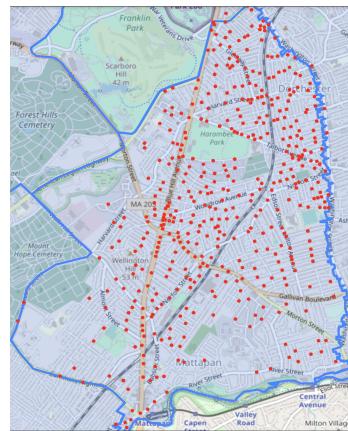
The above map shows the “Crime incident reports along the street popular”

File: district_maps_with_crime_location.ipynb (/code/district_maps_with_crime_location.ipynb):

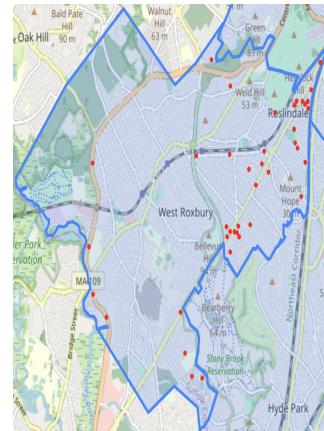
The district_maps_with_crime_location.ipynb file has been added in Deliverable 4. This file allows the user to run the code to get police district maps with crime locations marked on them. The data used for this map is from 2015 to 2023, providing a comprehensive view of crime incidents in the district. This addition can be particularly helpful in identifying crime hotspots or trends over time.



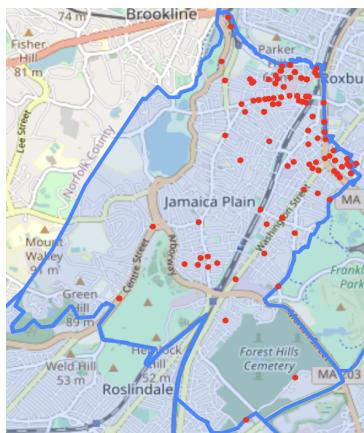
C11



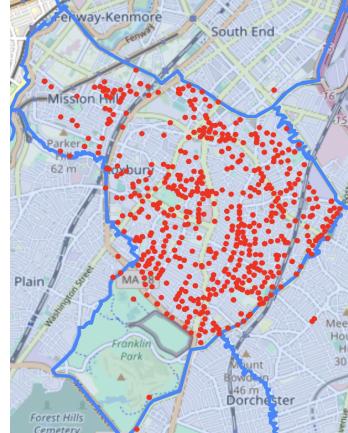
B3



E5



E13



B2

Conclusion:

In conclusion, four files, gun_violence_PatW.ipynb, TransportationGV.ipynb, ReadingShapeFiles.ipynb, and district_maps_with_crime_location.ipynb, were updated or added to in Deliverable 4. The updates included the addition of a graph to the gun_violence_PatW.ipynb file, changes to the TransportationGV.ipynb file's "Percentage of Each Study Type" graph to show only two study types, and the addition of more maps to the ReadingShapeFiles.ipynb file. Additionally, a new file, district_maps_with_crime_location.ipynb, was added to the project, providing users with police district maps marked with crime locations. These changes improve the overall quality of the project and provide a more comprehensive view of the data.