



# GUN VIOLENCE - TEAM 3



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## Project Summary

This project aims to discover the drivers of gun violence in District 4 and the rest of Boston.

## Tech Stack

Python and its various libraries.  
Google Colab.  
Jupyter Notebook.

## Reflections

A complex issue with multiple drivers.  
Community engagement and evidence-based interception might help.

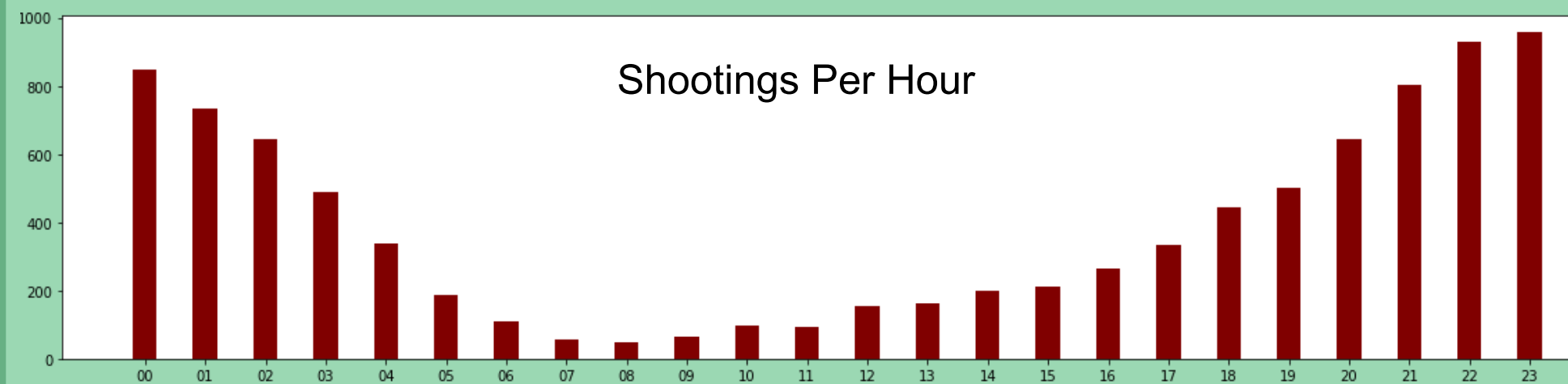
## Client

Brian Worrell & Team

## Base Project Results

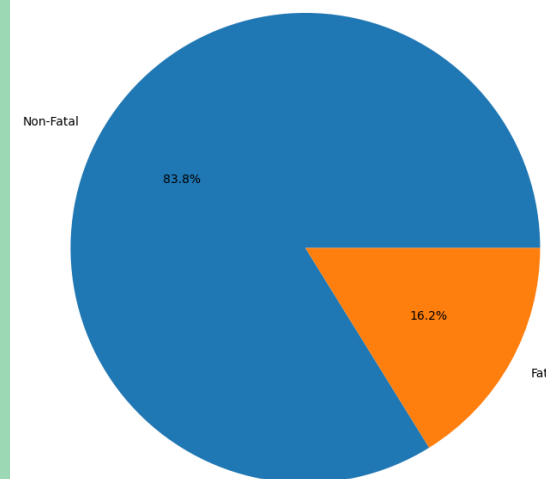
**Question:** Rate of gun violence in District 4 vs. the rest of Boston. The plot at the bottom right-hand corner shows that District 4 has the highest ratio of gun violence every single year from 2015 to 2023. The disparity in the ratio of gun violence between District 4 and the rest of Boston ranges from slightly more than twice to slightly more than 4 times.

**Question:** Average shooting incidents/hour. The plot below shows that mornings are the safest (6 am to 12 pm) and nights are the most dangerous (10 pm to 12 am).

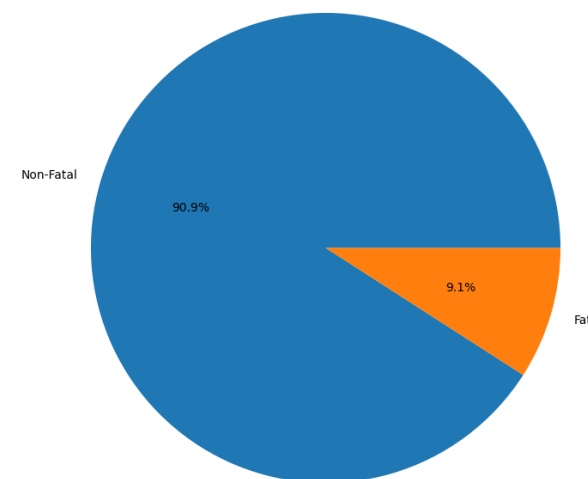


## Fatal vs Non Fatal Incidents Near Community centers of D4 District

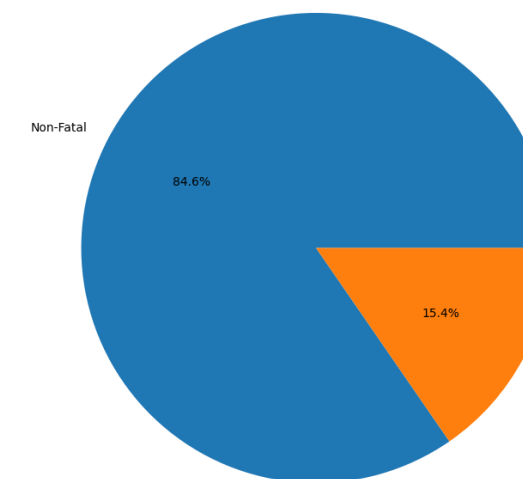
Holland\*, City Council 4



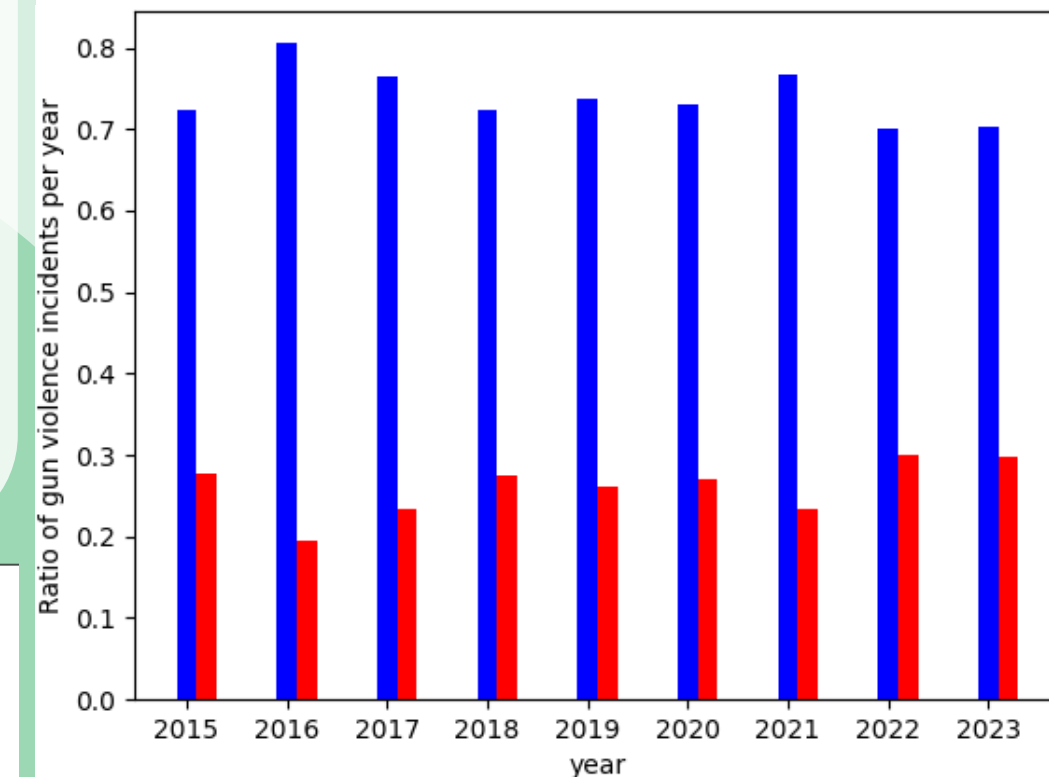
Perkins\*, City Council 4



Gallivan, City Council 4



## Ratio of Shooting Incidents in D4 district vs Rest of Boston



## Extension Project Results

**Question:** Do areas around parks have less violence? Our dataset's bias for location data prevented our team from answering this question.

**Question:** What are the drivers of gun violence incidents near community centers? Community Center's results are different from the rest of Boston which highlights how complex this issue is.



Scan the QR code to read our complete findings!