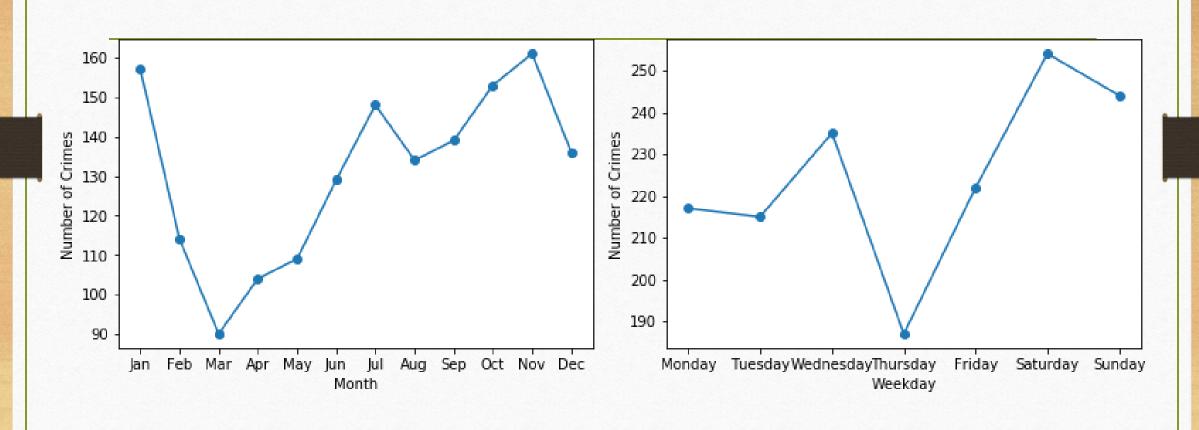
# Areas of Crime in our Nation's Capital

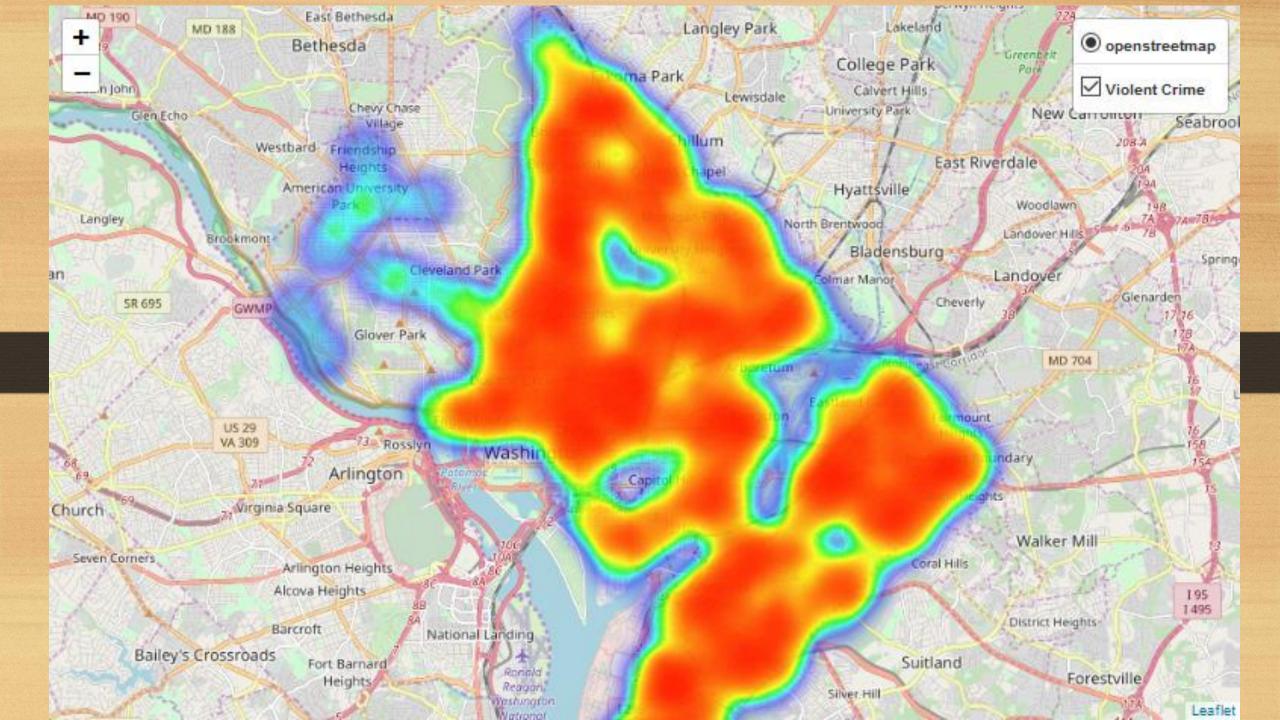
Masood Qaim

## Objective of the Analysis

- Find areas where violent gun-related crimes occur
- Overlay with key demographics (population, income, home value, etc)
- Build a model which can predict if an area is considered high in crime

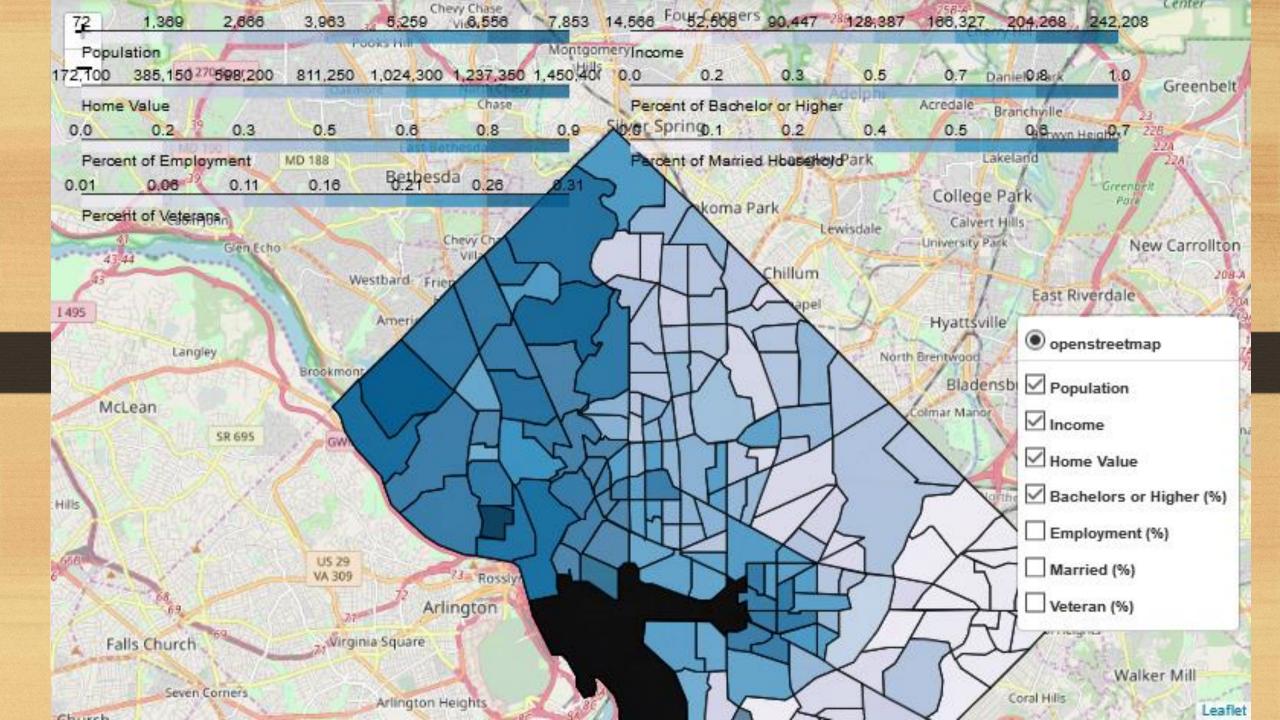
#### Violent Gun-Related Crimes

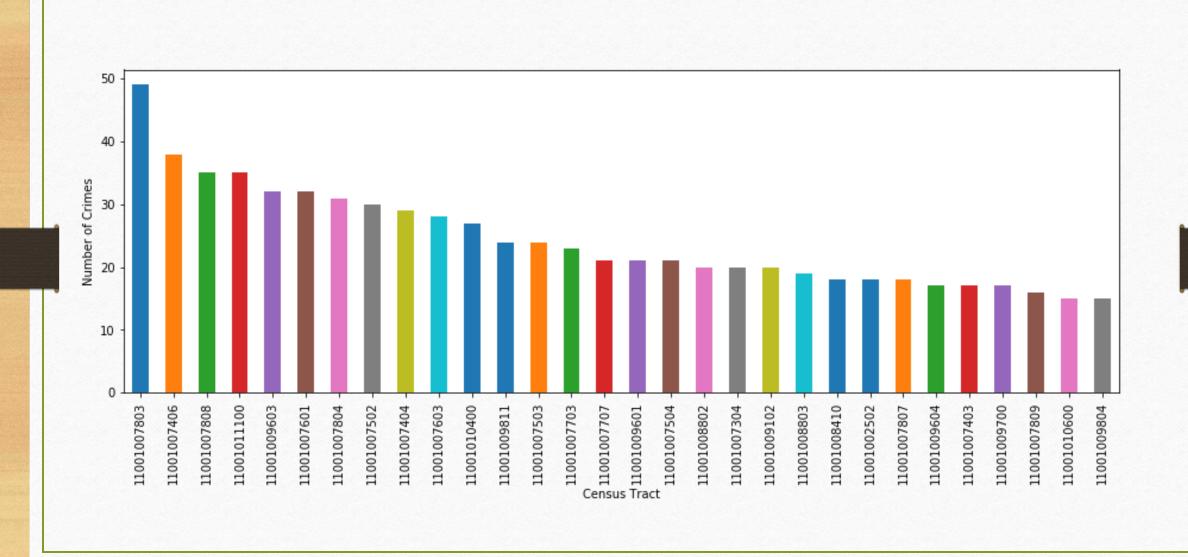


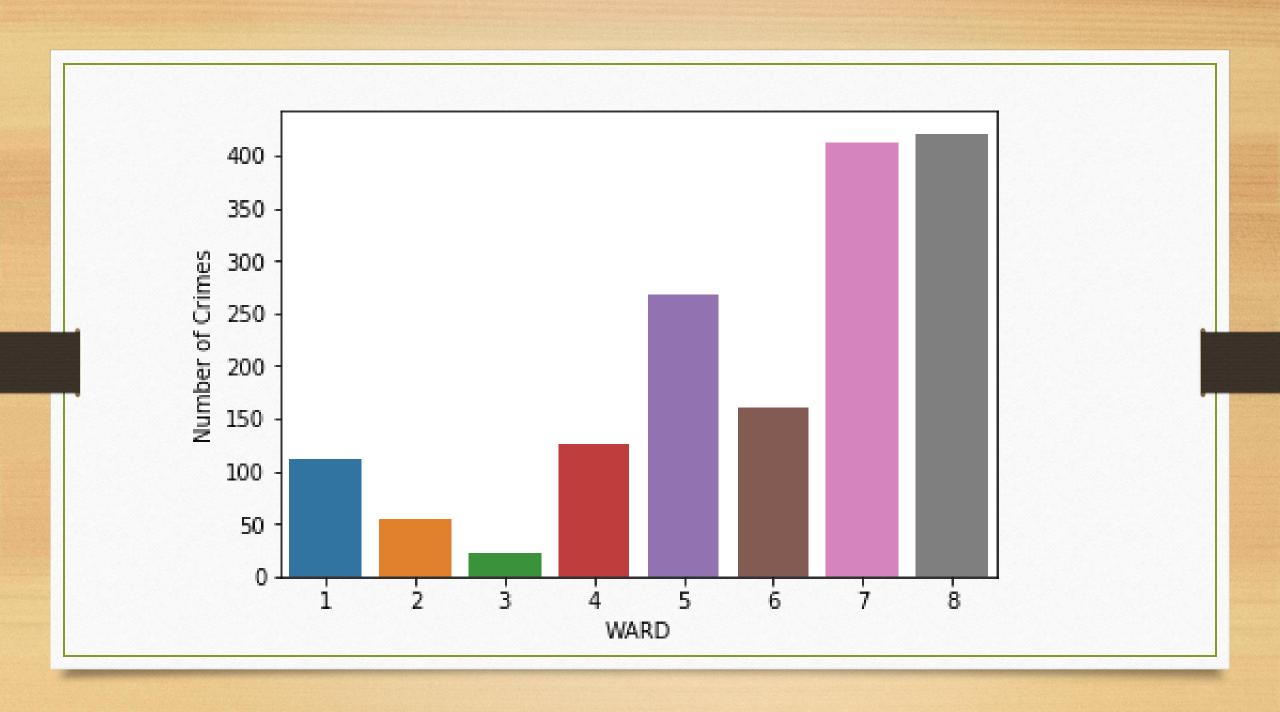


## Demographics to Analyze

- Population
- Income
- Home Value
- Education (bachelors or higher)
- Employment
- Marital Status
- Veteran



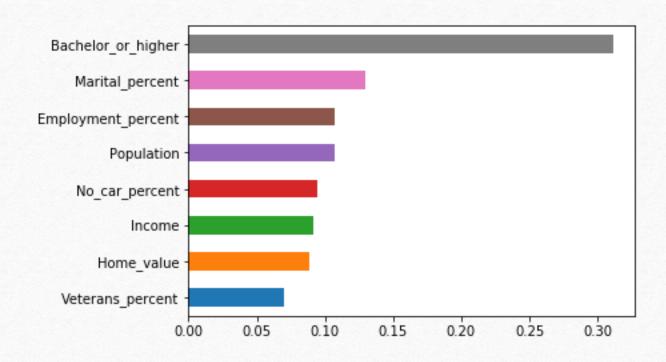




## Predicting if an Area is High in Violent Crime

- K-nearest Neighbor: 86%
- Support Vector Macine: 81%
- Random Forest: 83%
- Decision Tree: 76%
- Logistic Regression: 81%

### Which factors contribute the most



#### Recommendations

- Focus and invest in education
- Create initiatives to pursue college/university
  - Scholarships
  - Travel abroad
- Understanding the benefits