

**Project Title:** Changes in Shooting Rates in New York City over Time

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**Project Outline:**

Our project will focus on multi-year shooting incidents in New York City. We will compare policing methodologies of the NYPD and how their shooting rate has changed over time. The goal will be to measure the success of applied methodologies by analyzing changes in shootings over a 13-year period.

**Datasets to be Used:**

We will use the (Historic) NYPD Shooting Incident Dataset: <https://data.cityofnewyork.us/Public-Safety/NYPD-Shooting-Incident-Data-Historic-/833y-fsy8>

We will also use the individual agency website for more information on department programs, goals and initiatives to gain a better understanding of their approach to crime reduction.

**Questions to be Answered:**

1. What are the demographics of victims? Are there patterns or trends based on victim demographics?
2. Where are shootings most prevalent in New York (analyzed by borough or precinct)?
3. How were shooting incidents statistically impacted by implemented strategies? What were those % changes (+/-)?
4. What outliers were discovered in the data that had an impact on the crime rate? Are there geographical impacts?
5. How has their policing approach changed over time? Did they combine methodologies during the period evaluated?

**Tasks to be Completed:**

1. Research the selected agency to get a better understanding of when new strategies were implemented.
2. Import incident dataset with specific date parameters based on research.
3. If needed, clean data.
4. Scrub and group data based on points of interest.
5. Create visualizations to represent and support findings.
6. Create presentation.