

DTSA 5301 (Data Science as a Field)

Final Project 1: NYPD Shooting Incident

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What: This is a reproducible project which looks the historical shooting incident data collected and provided by **New York City Police Department (NYPD)**

Why: The purpose of this project is to attempt to extract meaningful insights from the data studied, with hope to better inform the viewer about the subject of gun violence.

Project Overview

Source Data Name: .csv File **NYPD Shooting Incident (Historical)**

Source Data Url:

<https://data.cityofnewyork.us/api/views/833y-fsy8/rows.csv?accessType=DOWNLOAD>

About the Source Data

Url:

<https://github.com/aaronchanboulder/dtsa5301>

GitHub Project Repository

**15 years
worth of data**

**Over 23K
incidents captured**

**Averaging over 4
incidents per day!**

Insights Quick Glance

**40.3% of it took
place in Brooklyn**

**2020 saw record
200.8% yearly spike**

**July and August are
the worst months**

Insights Quick Glance

Black made up of 41.8% of the perpetrators as well as 71.5% of the victims' race

Due to incomplete data, 43.7% of perpetrators race remain unknown

Insights Quick Glance

Several short-term spikes were observed in the data having tied to events at the time, e.g. the George Floyd Incident '20

Insights Quick Glance

- Research outcome can gain more insights with additional supporting data, such as demographic and income level information for folks who live in the New York City.
- Potential comparative studies between New York City and other large cities on shooting incident data, e.g.: Chicago, Detroit, Baltimore, etc.

Some Takeaways