




NYPD SHOOTING ANALYSIS

CU Boulder - Data Science As A Field

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Data Source

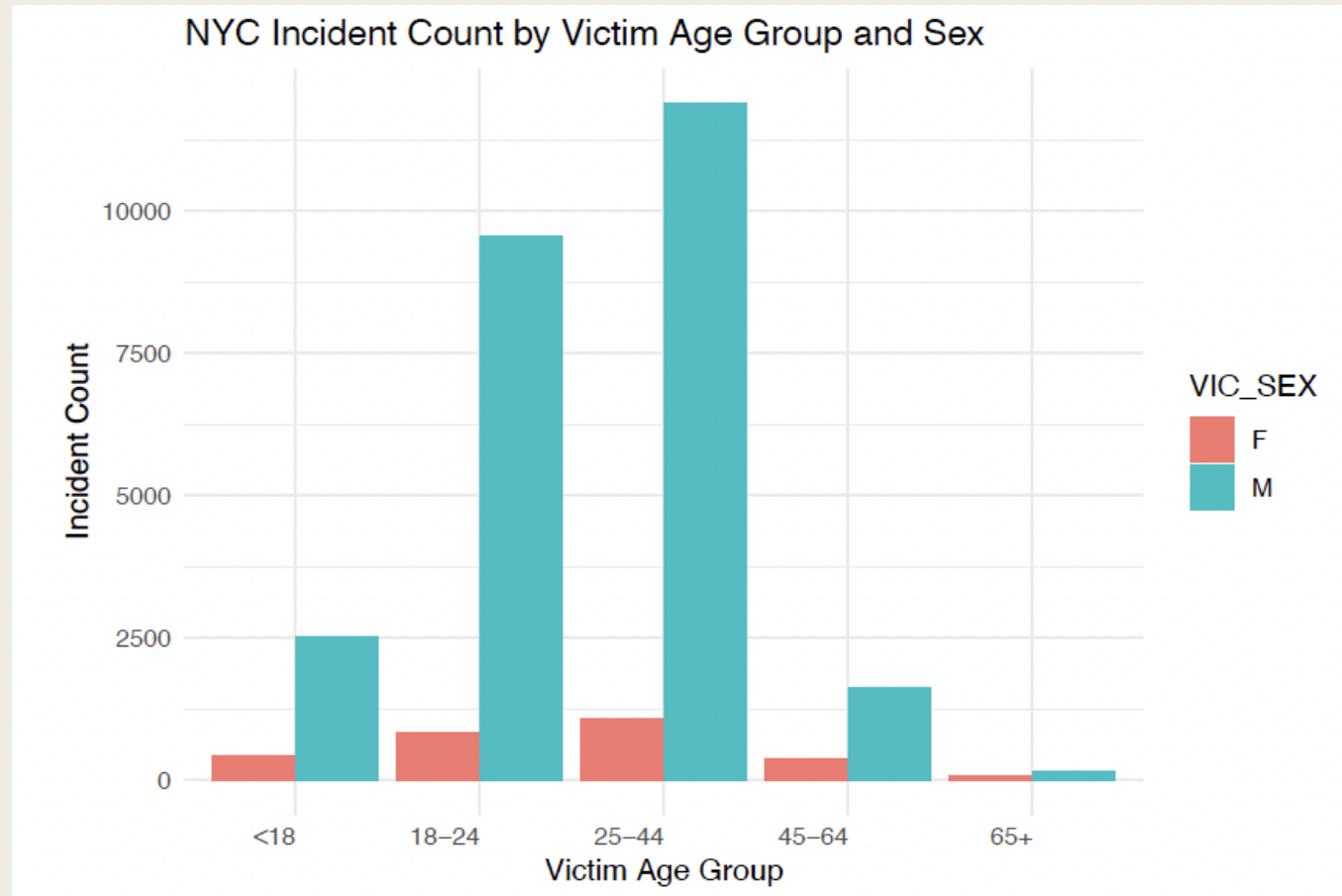
Shooting incidents occurred in New York City during the year 2006.

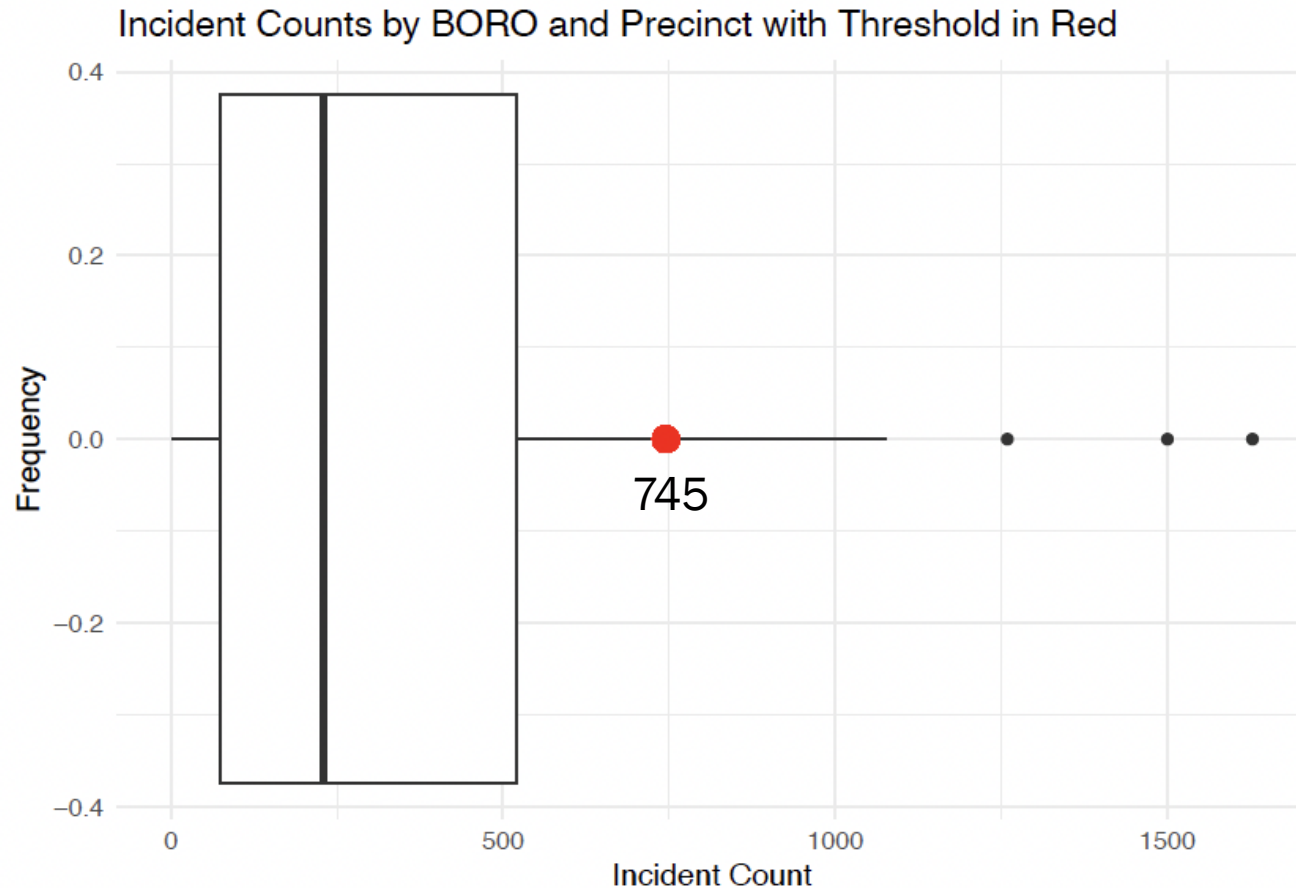
<https://catalog.data.gov/dataset/nypd-shooting-incident-data-historic>

Goal

To explore the characteristics the the incidents and create a predictive model to determine whether an incident was a murder.

- Male victims outnumbered female victims across all age groups.
- With 18-24 and 25-44 age groups experiencing the highest number of incidents





- mean number of incidents to be 370.93, with a standard deviation of 374.15
- BORO and precinct with Incidents above 745 ($370.93 + 374.15$) can be identified as potential unsafe place

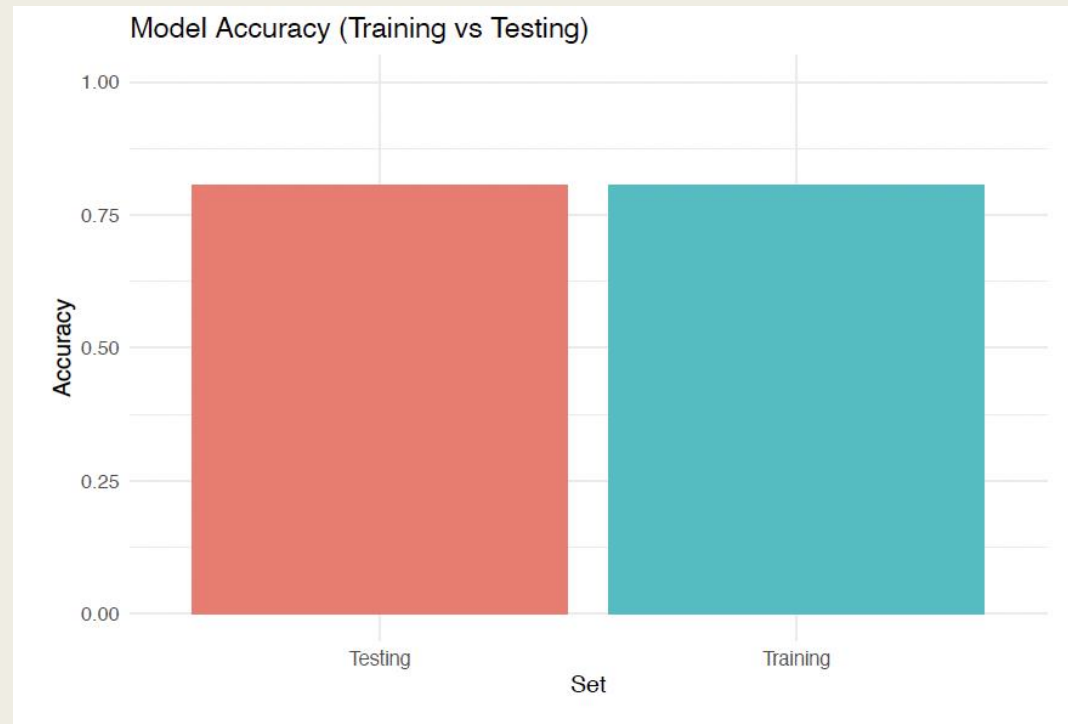
Potential Bias: Only considered incident counts without factoring in the population size

Logistic Model – to predict whether an incident was a murder

Variables: BORO, Precinct, victim age group, victim race, victim sex, latitude, longitude, month, hour, day of week

Training score: 0.8063

Test score: 0.8062





THANK YOU
FOR
REVIEWING!