



Introduction

Client:



Goal:

Provide analysis of both MTA turnstile data & reports of harassment crimes on the subway to inform the scheduling practices for NYPD Transit Officers. Stations with high foot traffic/high reports of Harassment crimes should receive priority.

Methodology



Data





Data Ingestion, Storage, & Extraction



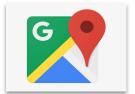


Cleaning



Visualization







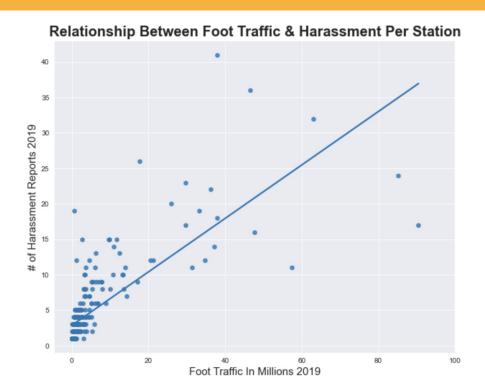
HARASSMENT IN THE SECOND DEGREE

Penal Law 240.26

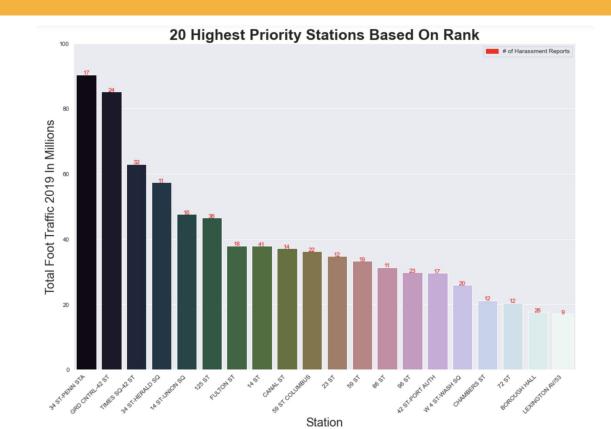


- strikes, shoves, kicks or otherwise subjects such other person to physical contact, or attempts or threatens to do the same.
- follows a person in or about a public place or places.
- engages in a course of conduct or repeatedly commits acts which alarm or seriously annoy such other person and which serve no legitimate purpose.
- did so with intent to harass, annoy or alarm

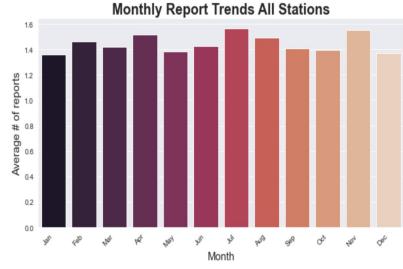


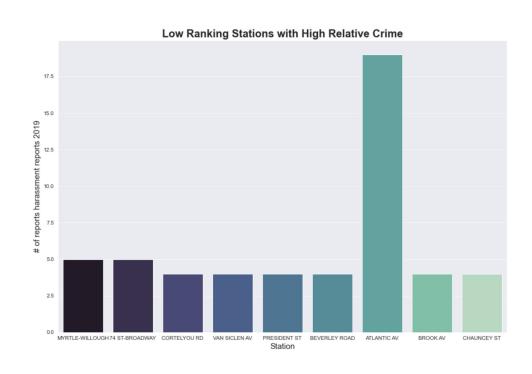


Correlation Coefficient: 0.76

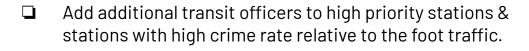








Recap & Recommendations



- Monthly report rates are fairly even.
- Deeper analysis may be done to see if time series patterns can be narrowed down further.
- Remove officers from the schedule in low trafficked/low crime areas.

Precinct's near the top priority stations



Future Work

- Apply this process to more recent figures
- Build a model to predict future trends
- ☐ Include other prevalent types of crime



