

Analyze Travel Data to Reduce Turnstile Jumping

PRESENTATION FOR EXPLORATORY
DATA ANALYSIS



Introduction



What problems will
it solve?



Assumptions:

- 1) Turnstiles are functional.
- 2) People in residential areas commute to and fro from the same subway stations, every time they commute.
- 3) Most travel from subway stations in residential areas, is for work and academics.
- 4) People don't exit from the emergency gate.



Database & Tools Used:

PRIMARY: MTA SAMPLE DATA

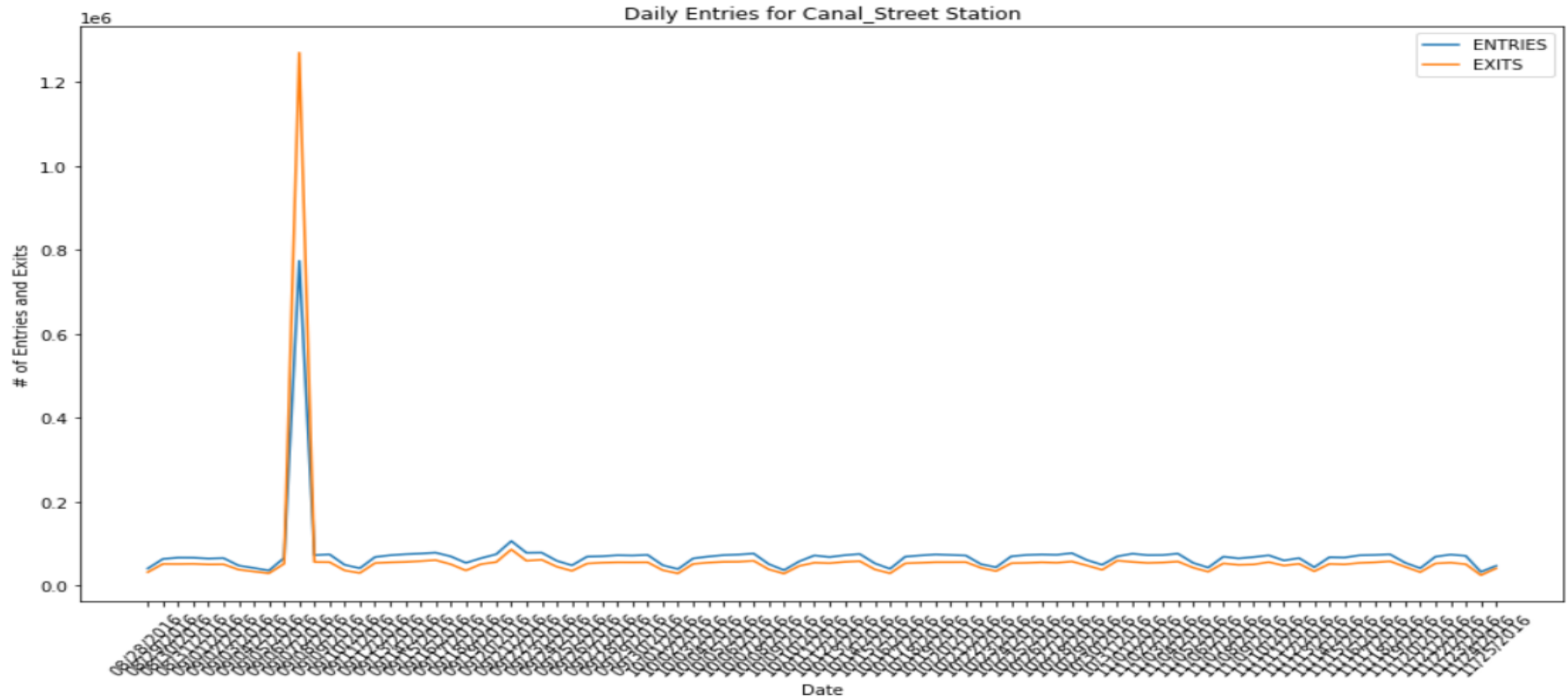
SECONDARY: NEW YORK CITY POPULATION DATASET

DATA MANIPULATION- PANDAS AND NUMPY

DATA VISUALIZATION- TABLEAU AND MATPLOTLIB

Distribution of Entries and Exits

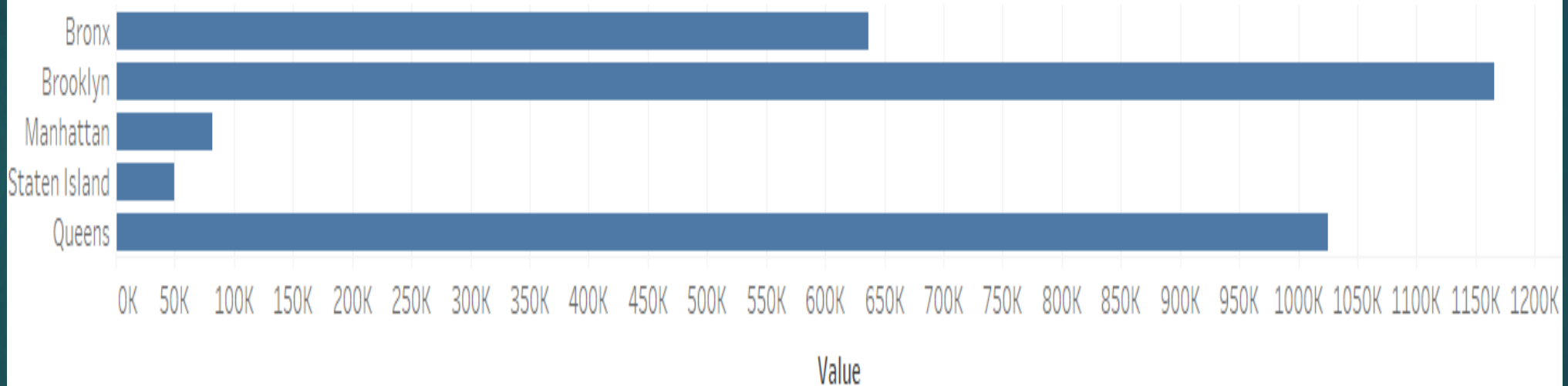
Out[71]: Text(0.5, 1.0, 'Daily Entries for Canal_Street Station')



Population of Rent-Controlled Residents near Canal Street

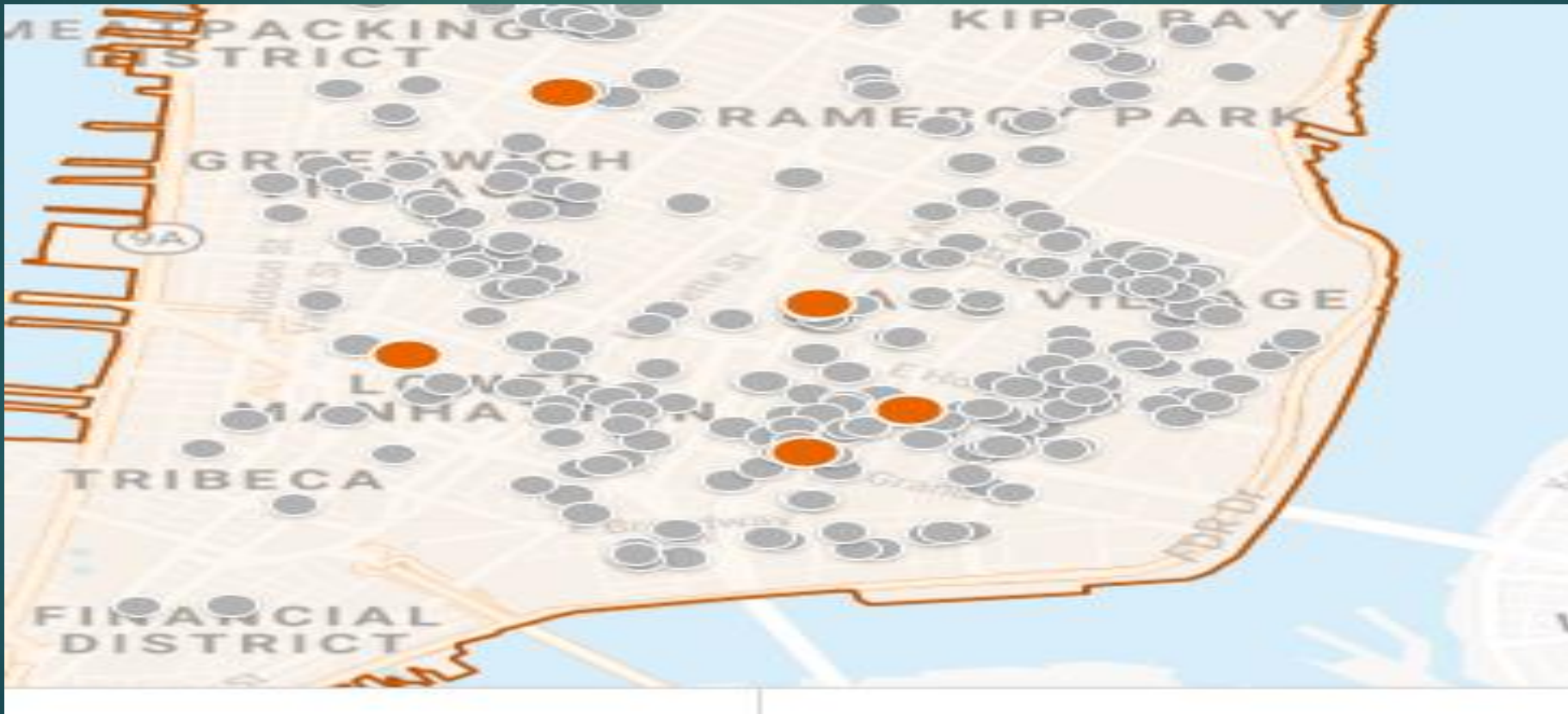


Number of Residents in Rent Controlled Apartment. Courtesy: HPD



Bronx, Brooklyn, Manhattan, Staten Island and Queens.

Low-Income Housing (Projects) near Canal Street. Courtesy: Section 8 website





Solution

Improve Analytical Accuracy

ACCESS TO CCTV FOOTAGE
EMERGENCY EXIT DATA