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

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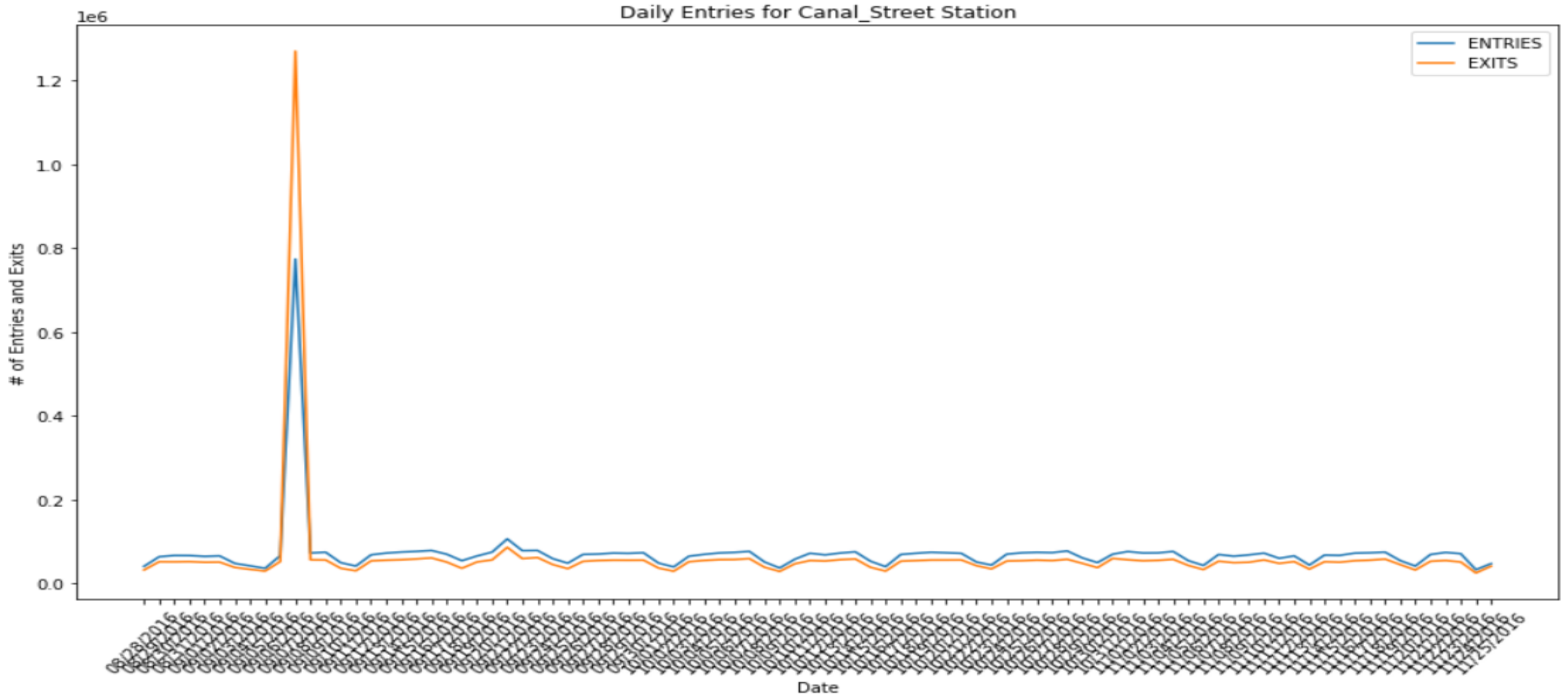
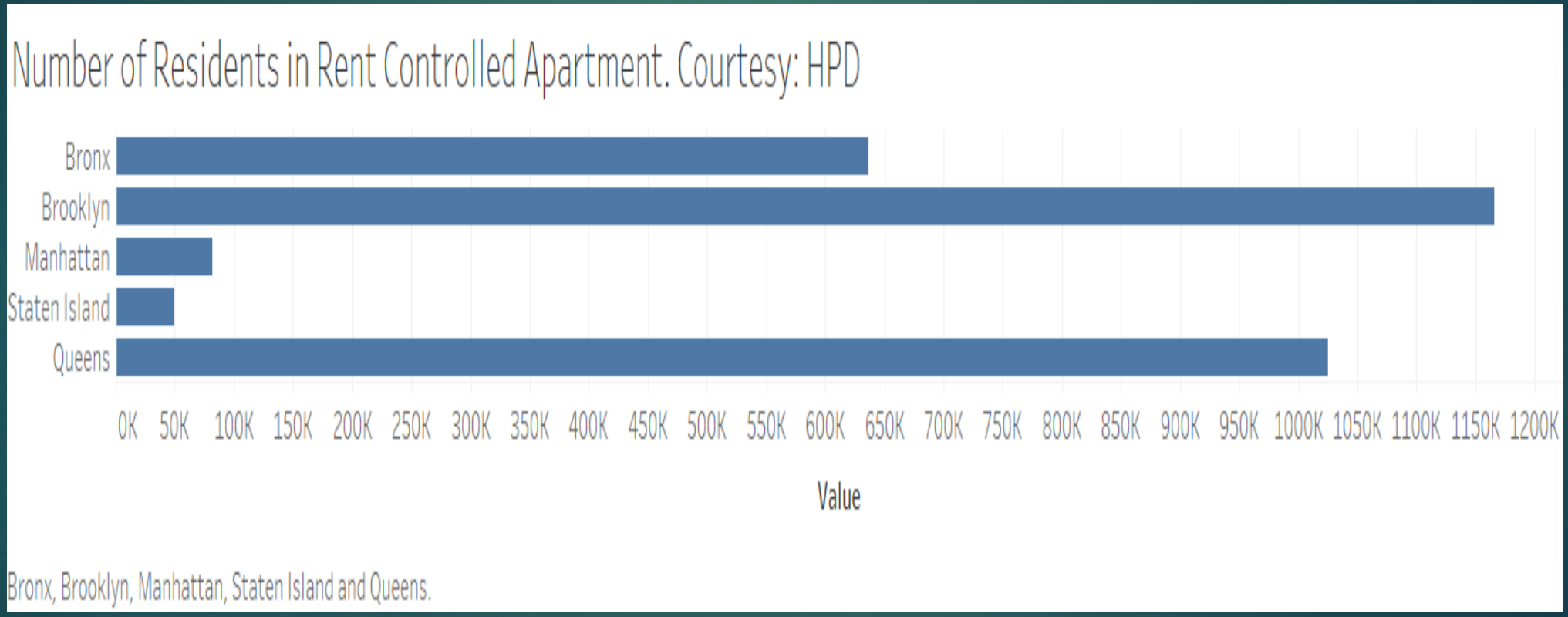
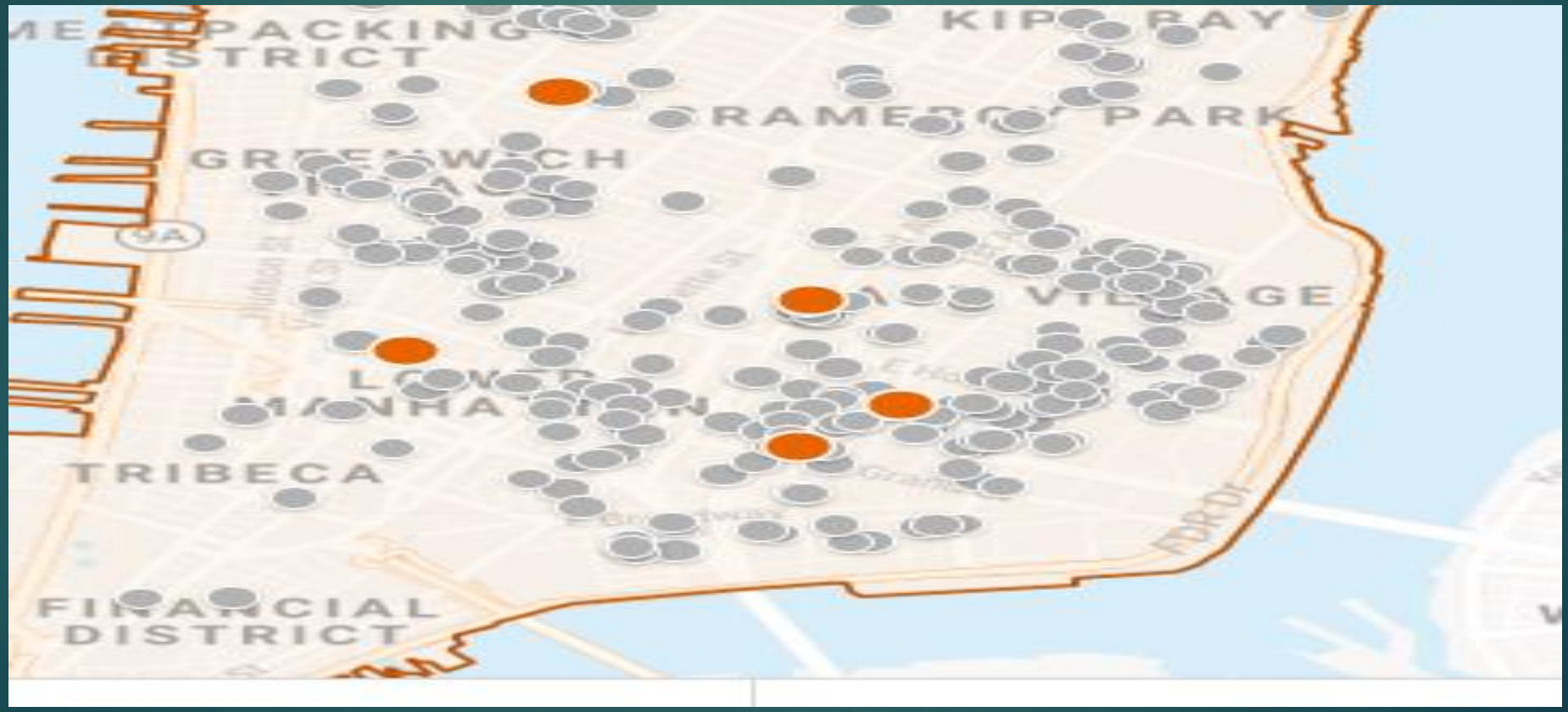


Population of Rent-Controlled Residents in New York City



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



Solution

Improve Analytical Accuracy

ACCESS TO CCTV FOOTAGE

EMERGENCY EXIT DATA