

### NYC residential real estate: down, but not out

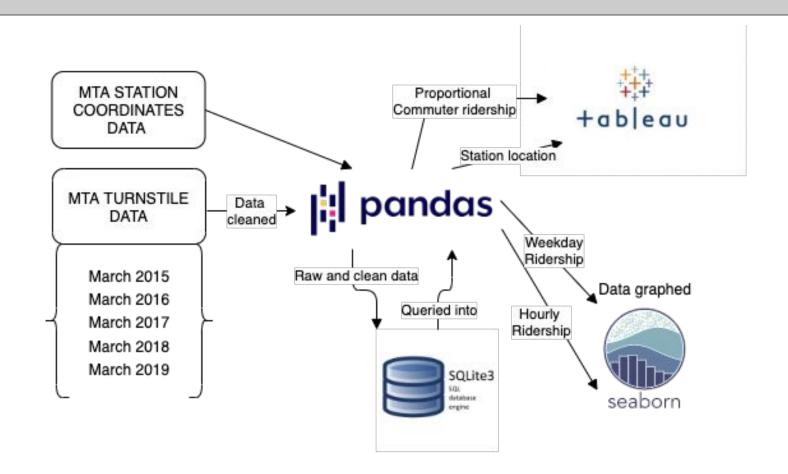
#### The Opportunity:

- Residential real estate prices are down 20% from early 2020
- People are moving back to NYC as the pandemic wanes
- Buy the dip now! Low prices, low mortgage rates

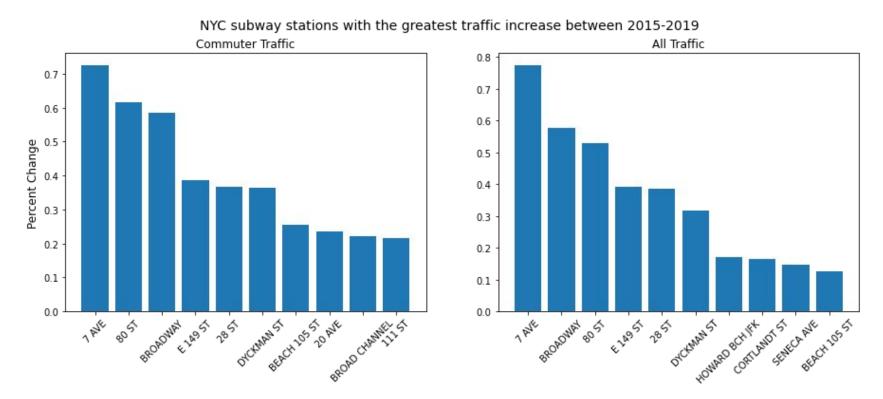
#### The Analysis:

- Obtain data available from the MTA on exits and entries from each turnstile in each station
- Identify subway stations with highest growth in commuter traffic, suggesting a burgeoning neighborhood
  - Commuter traffic is defined as turnstile entries between 6:00 10:00 on weekdays

#### Data and Workflow

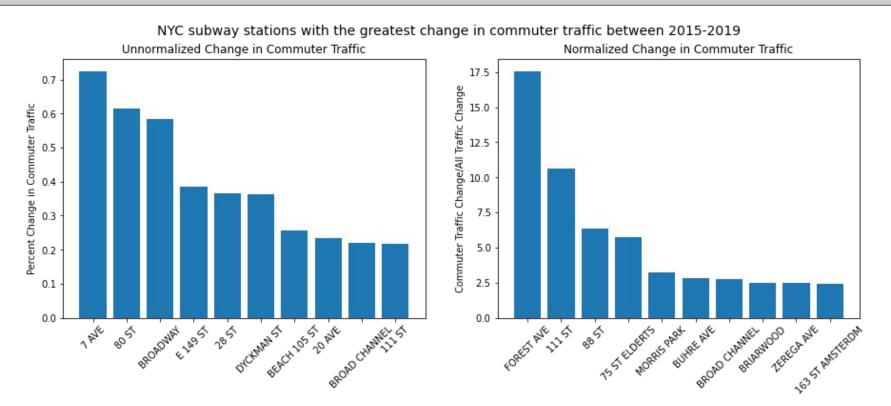


# Changes in subway traffic between 2015-2019



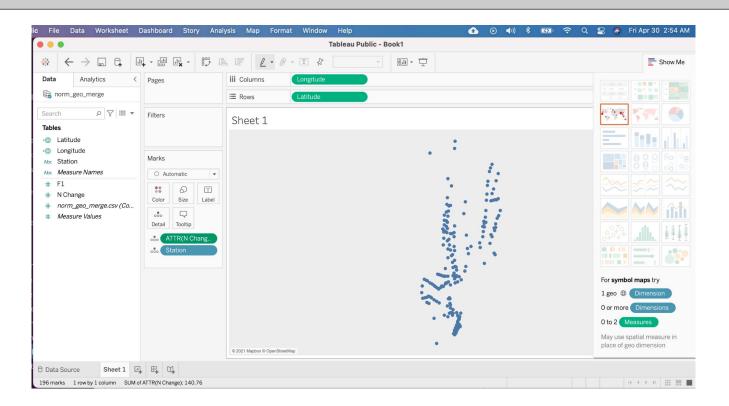
The ten stations with the highest increase in traffic are mostly the same when comparing commuter traffic and all traffic.

## Changes in commuter traffic between 2015- 2019



The ten stations with the largest increase in commuter traffic mostly different when comparing unnormalized and normalized percent changes.

# Stations with growth in commuter traffic

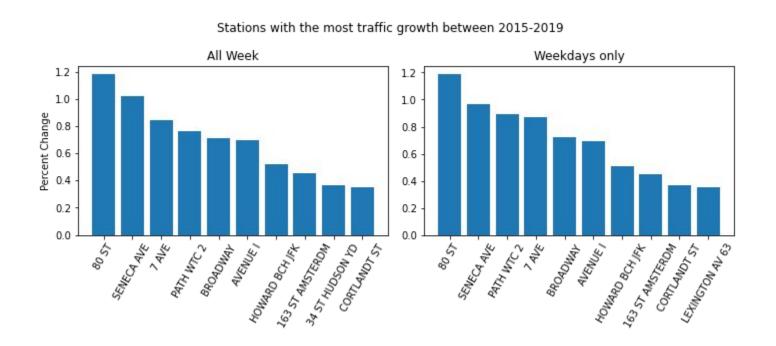


Most of the stations displaying proportional commuter growth greater than 50% are outside of Manhattan.

### **Future Directions**

- Plot all data using Tableau
- Include all data available from February 2015 February 2020 by incorporating cloud computing
  - Exclude holidays, major weather events, etc...
- Validate the assumption that a growing commuter population correlates to more profitable real estate investments
- Identify residential properties types that showed the greatest relative increase in pricing pre-pandemic
- Ensure that areas around the station identified in this analysis has not witnessed increased crime during pandemic relative to the entire city
- Weight growth from year-to-year based on overall population influx

## Stations with the greatest increase in traffic pre-pandemic



The top fastest growing stations are mostly the same when comparing all days of the week to weekdays only  $_{\mbox{\tiny 8}}$