MTA Turnstile Analysis

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Background

How can a health insurance company utilize commuter data to identify high-risk customers who may need adjusted health coverage during wide-spread health crises?



- Analyze stations with high traffic and COVID hot spots
- Data:
 - MTA Turnstile Data: http://web.mta.info/developers/turn stile.html
 - MTA Stations with geographic coordinates: https://hub.arcgis.com/datasets/8c5 47512607847789e8b7648323dc462
 - COVID cases in NYC by zip code:
 https://github.com/nychealth/corona virus-data/blob/master/totals/databy-modzcta.csv

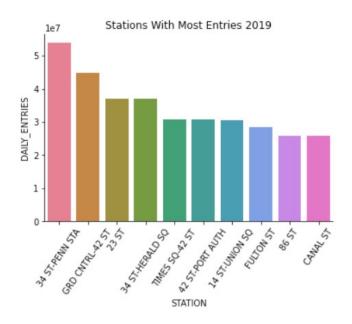
Locations with Highest COVID-19 Rates

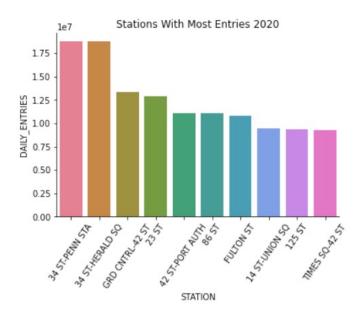


Most Populated MTA Stations

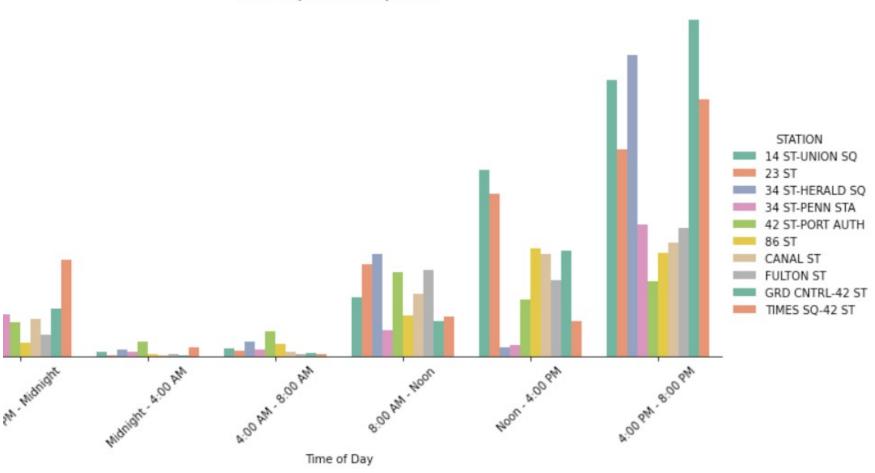


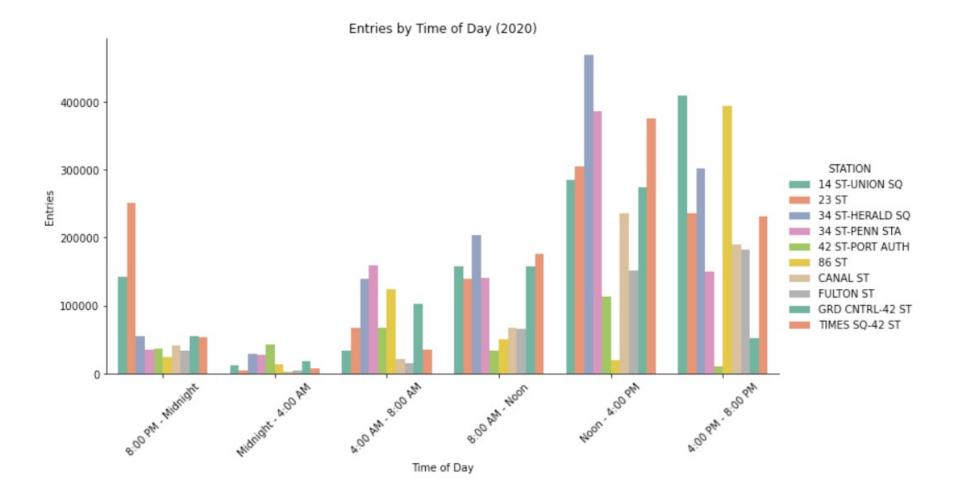
Most Populated Stations











Conclusions and Further Analysis

- Less MTA commuters overall decreased risk for exposure in general
- Most populated stations are outside of the top 15 COVID hot spots
- A subset of people are still going into work essential workers?
- A deeper analysis should include:
 - MTA exit data
 - Investigating average income of customers' neighborhoods