

Work-From-Home Trends in NYC

Or: How I learned to Stop Worrying And Love Histograms



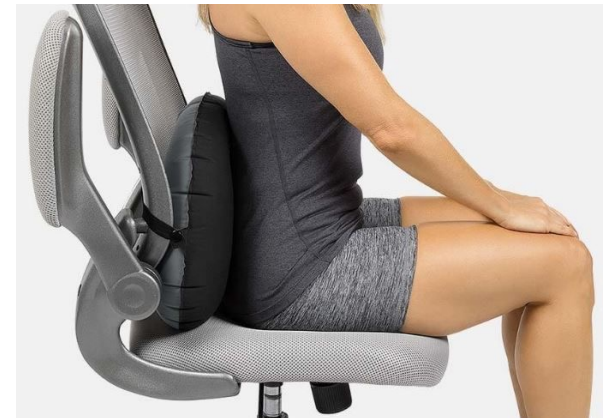
"I'm working from home."

Metis EDA Module Presentation

Andrei Levin • 6/25/21

Our Client

- Necessary Supplies For Work-From-Home Inc. (**NSFW**)
- Would like to know which NYC neighborhoods have had the largest employment transition to work-from-home as a result of the pandemic.

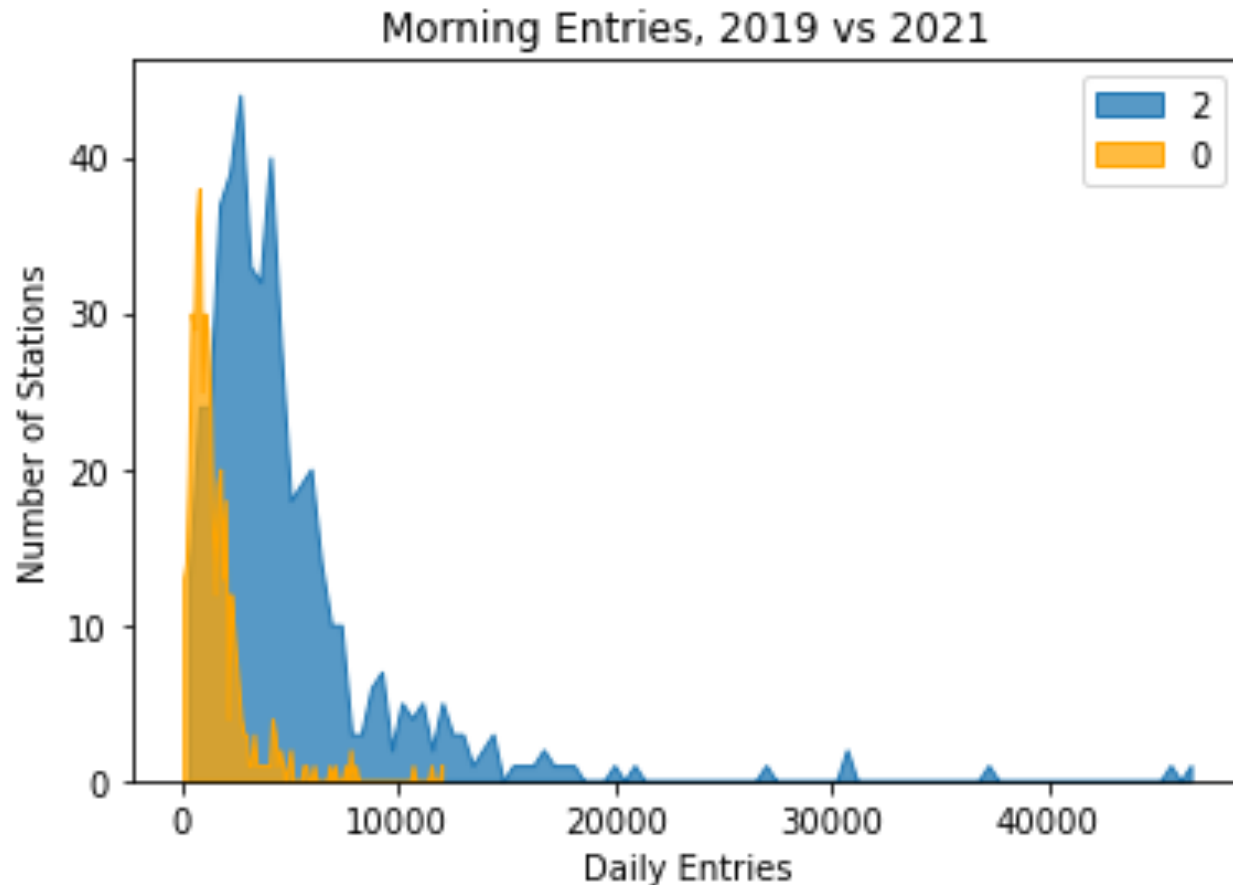


Strategy

- Aggregate April & May data for 2019 and 2021
- Count average net **morning** entries per station

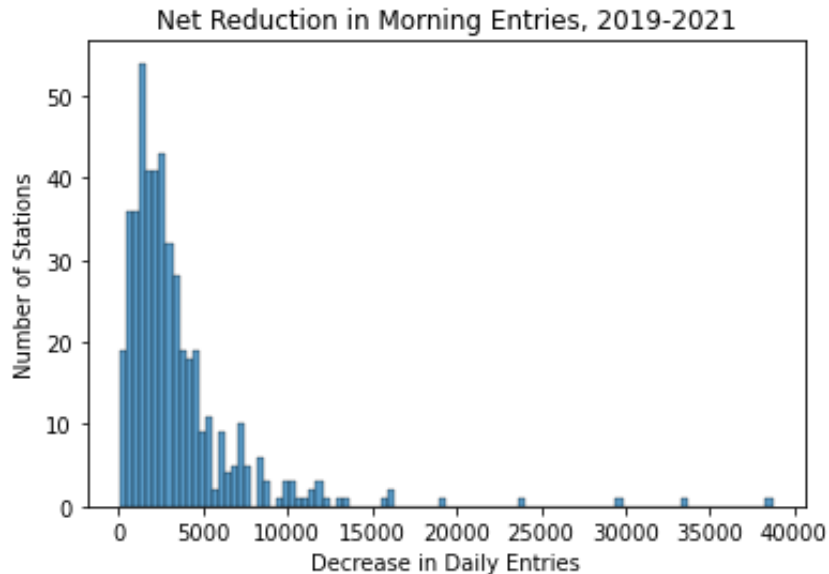
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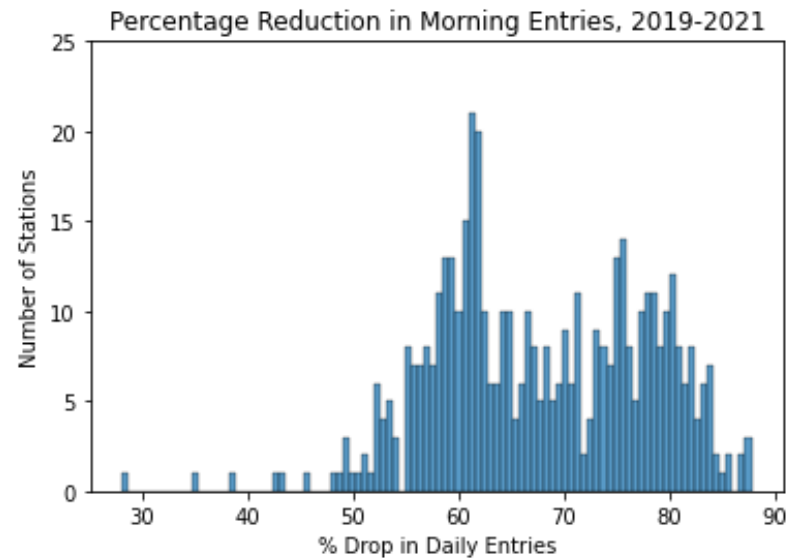


70% Total Decline from 2019 to 2021

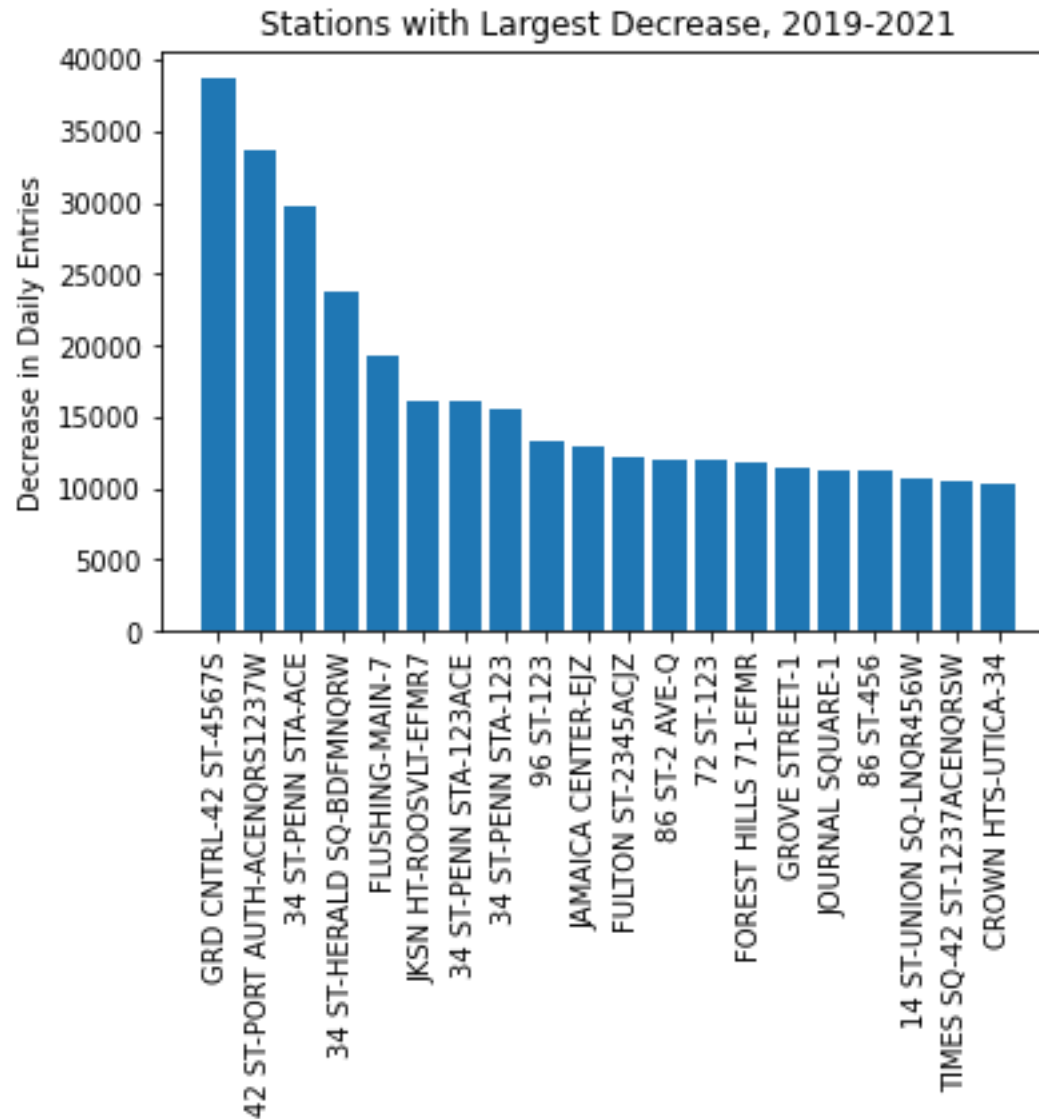
Number Decrease



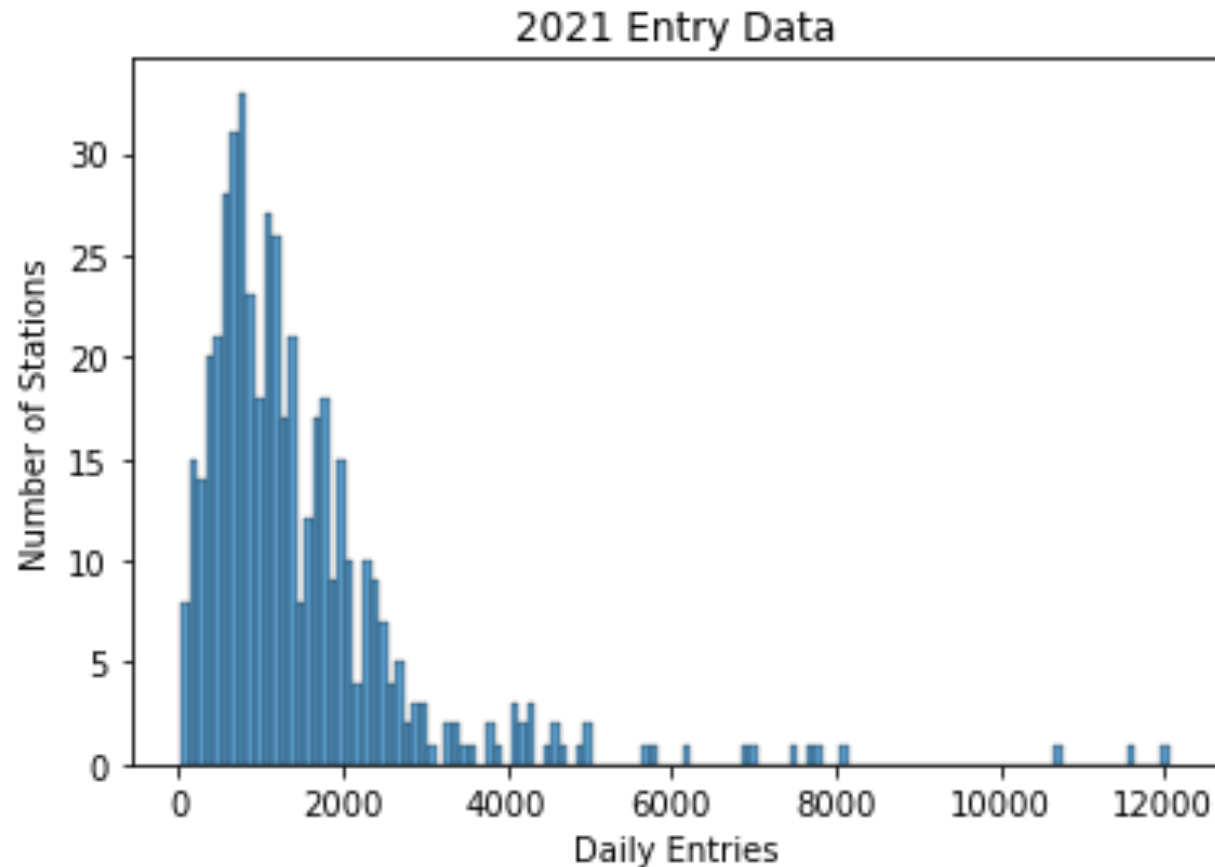
Percentage Decrease



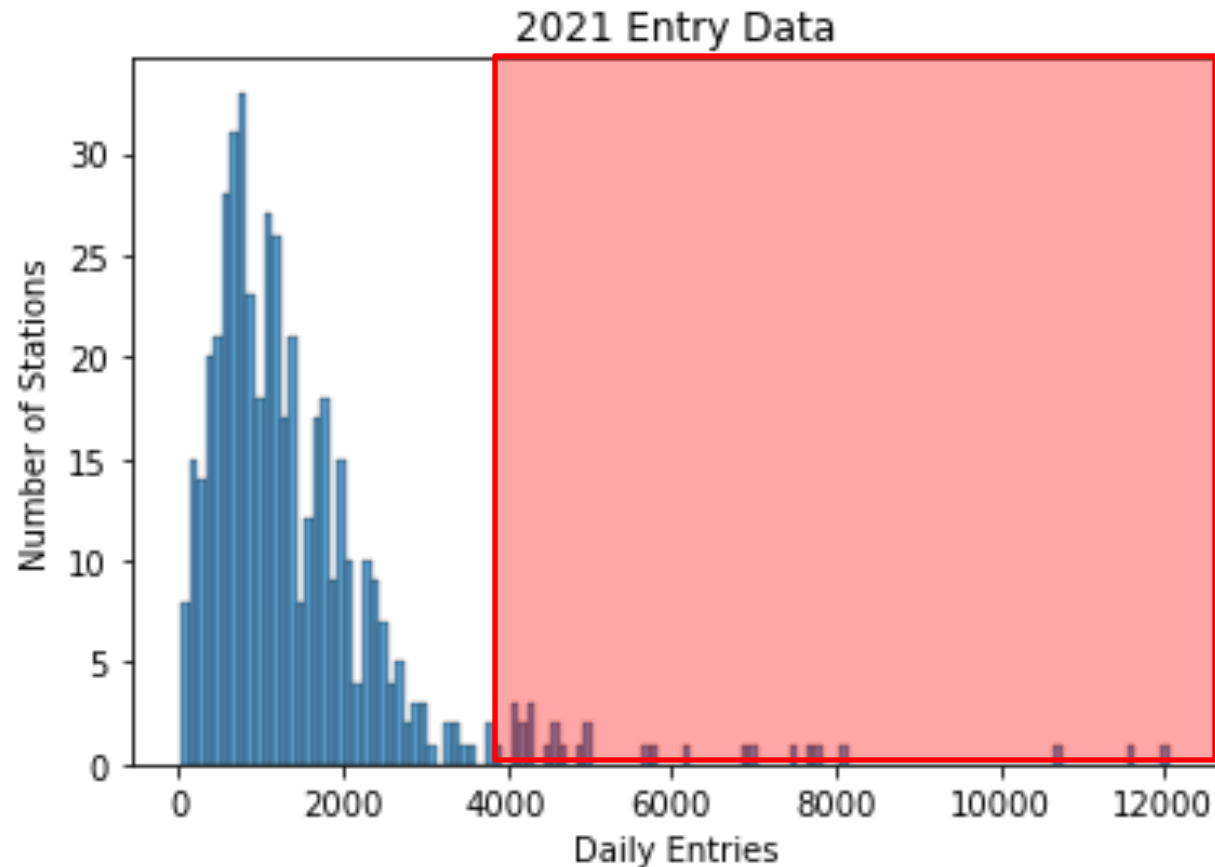
Stations with Largest Number Decrease



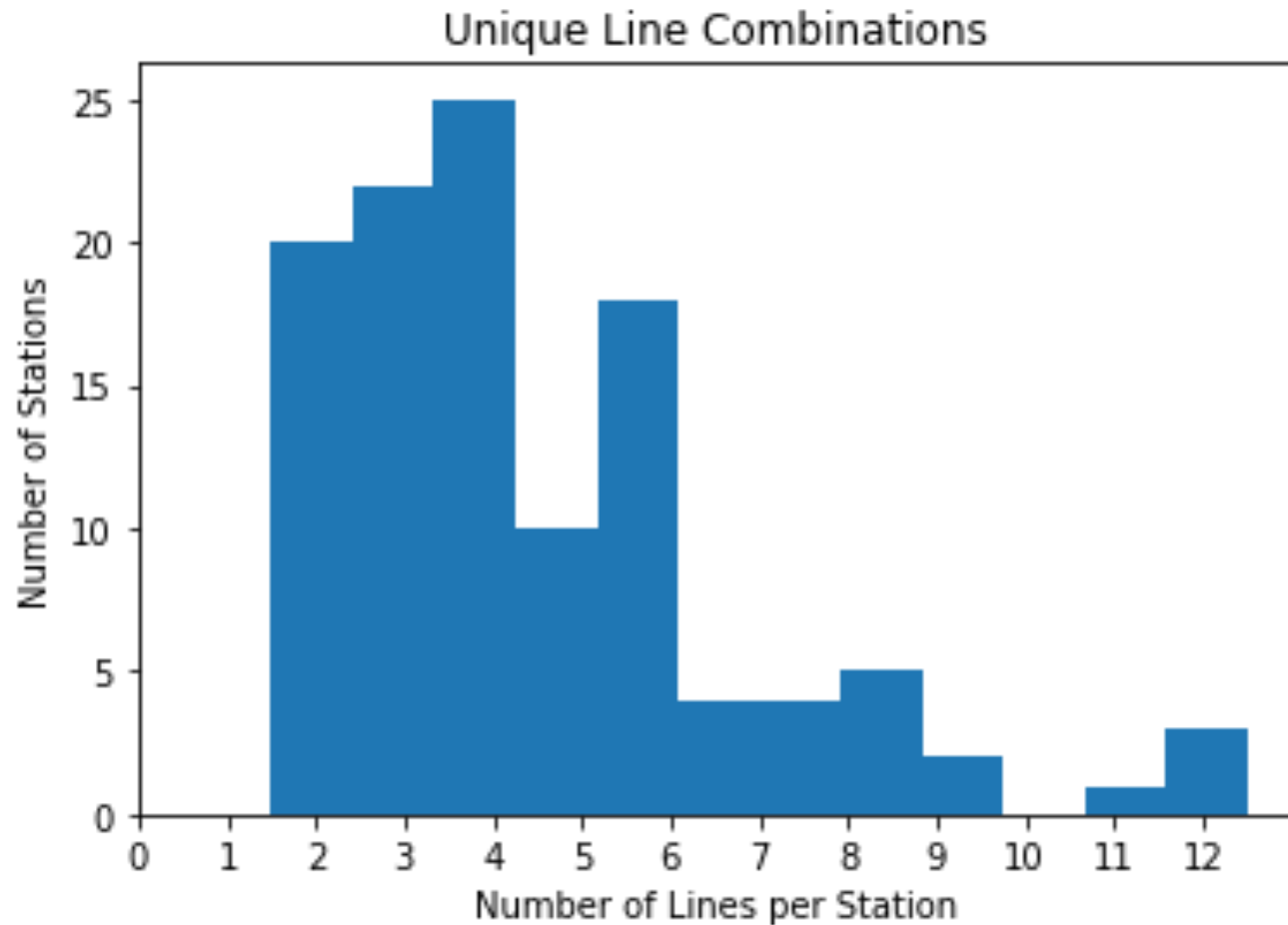
How do we filter out non-residential areas?



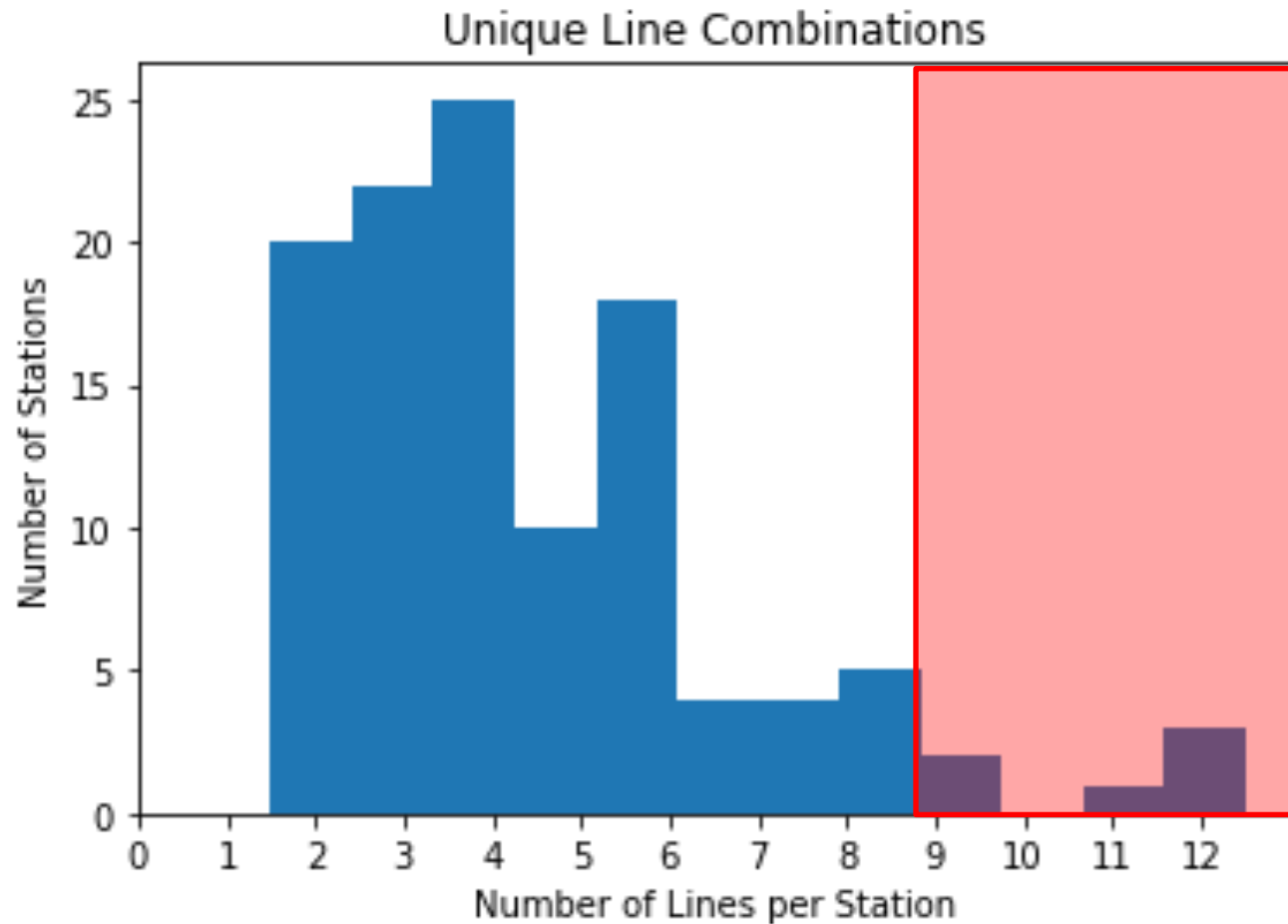
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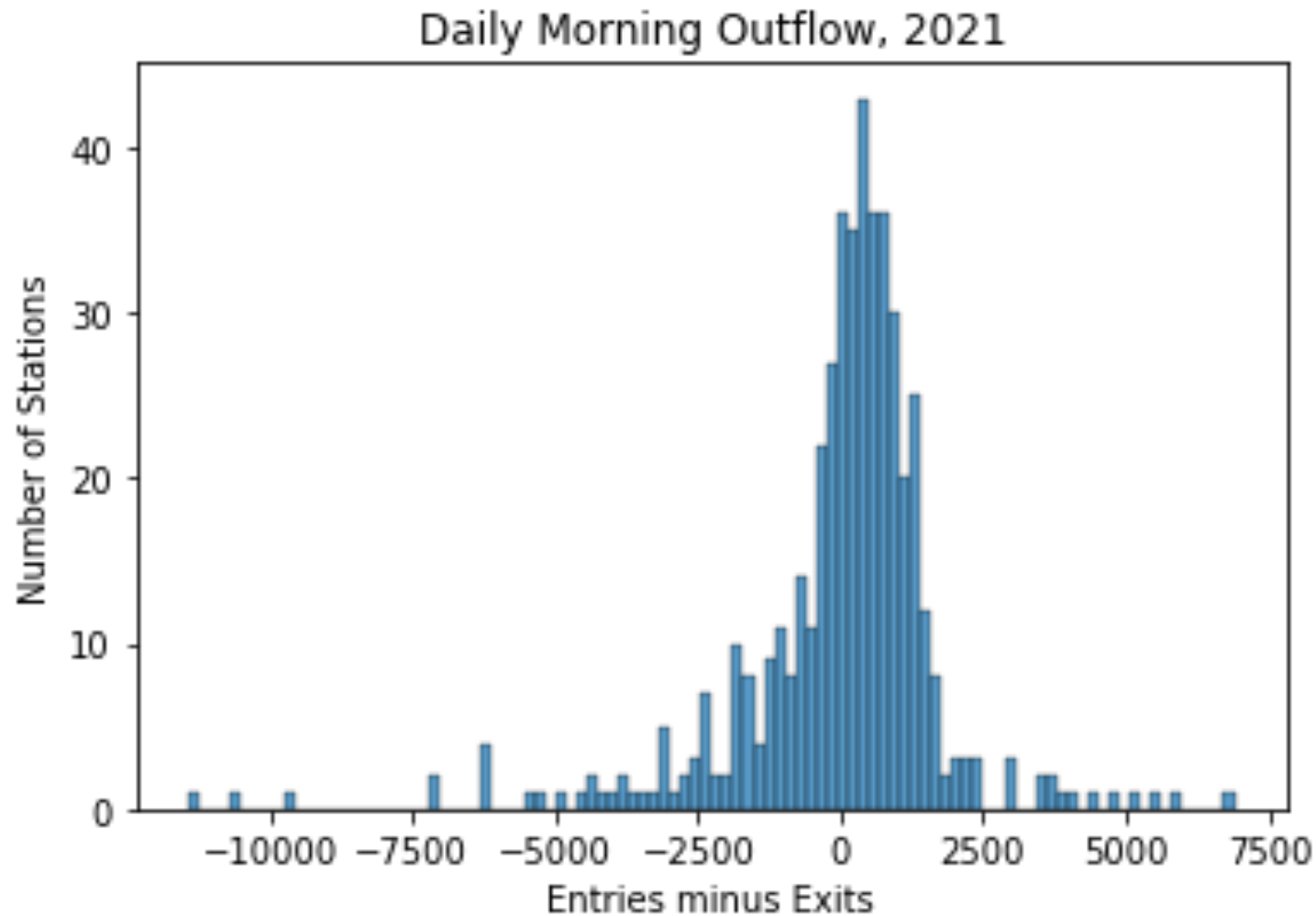
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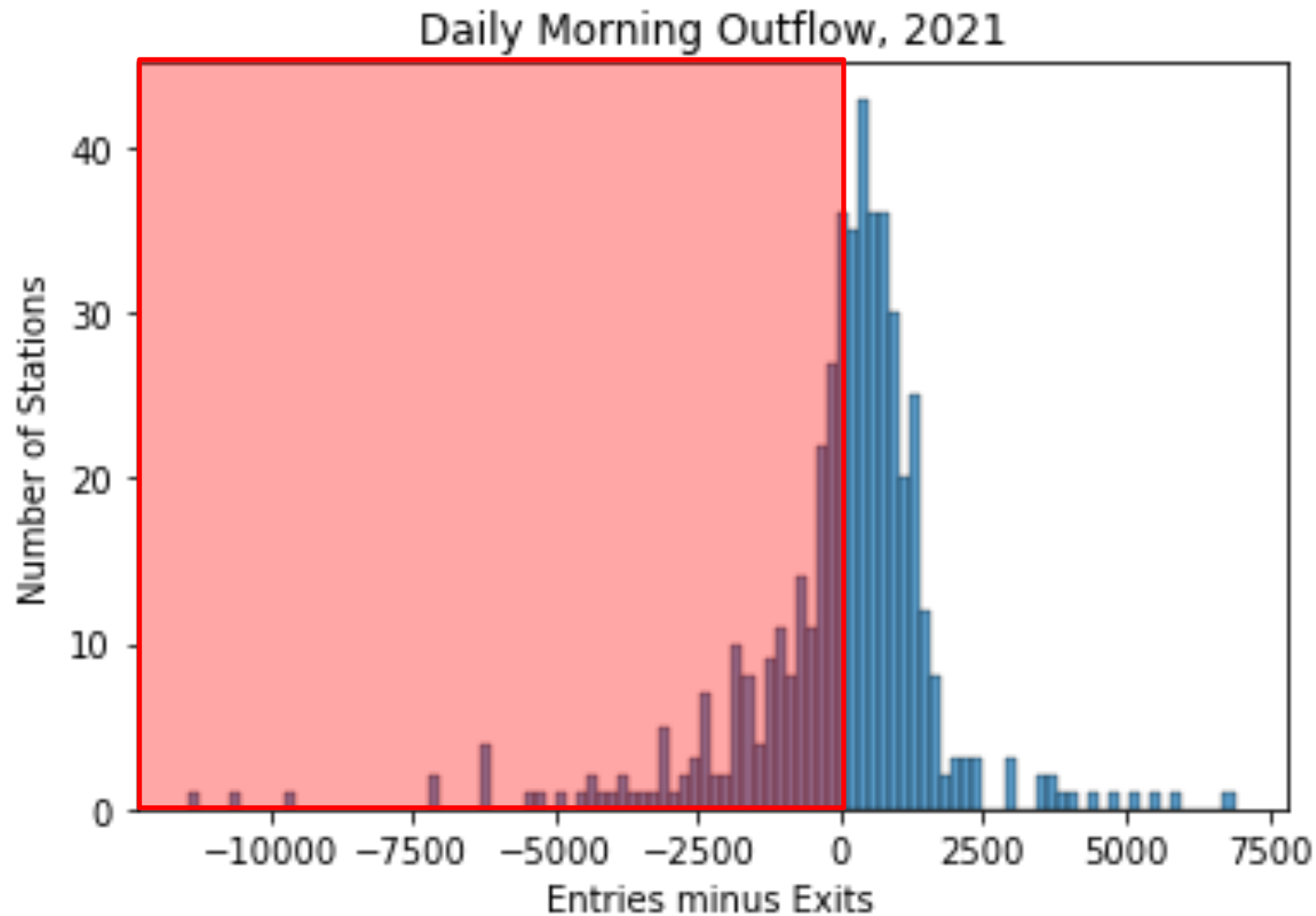
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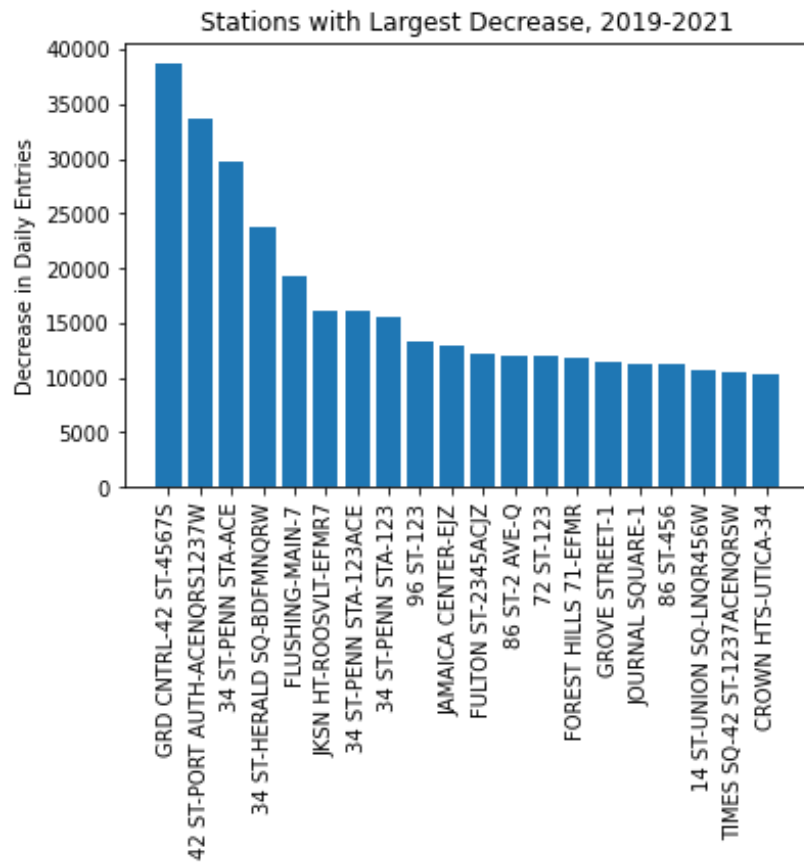


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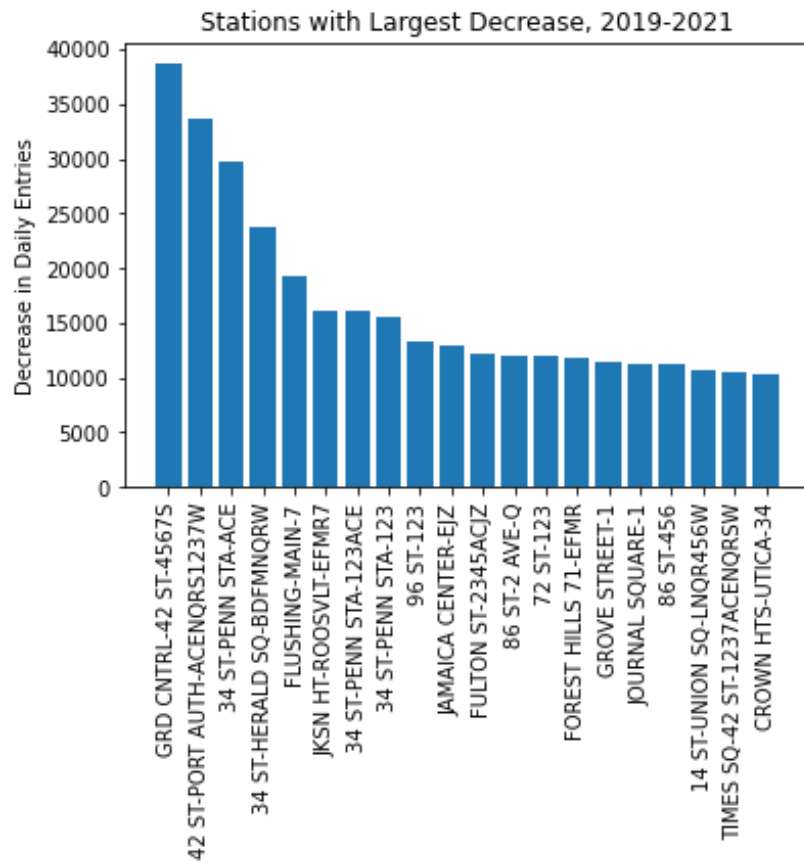
Stations with Largest Number Decrease

Without Masks

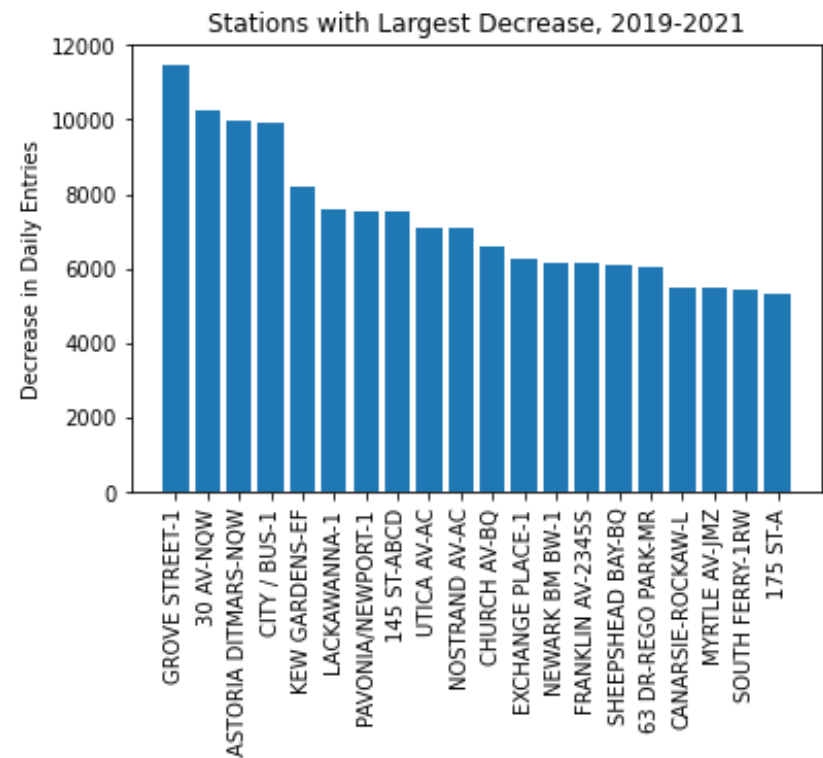


Stations with Largest Number Decrease

Without Masks

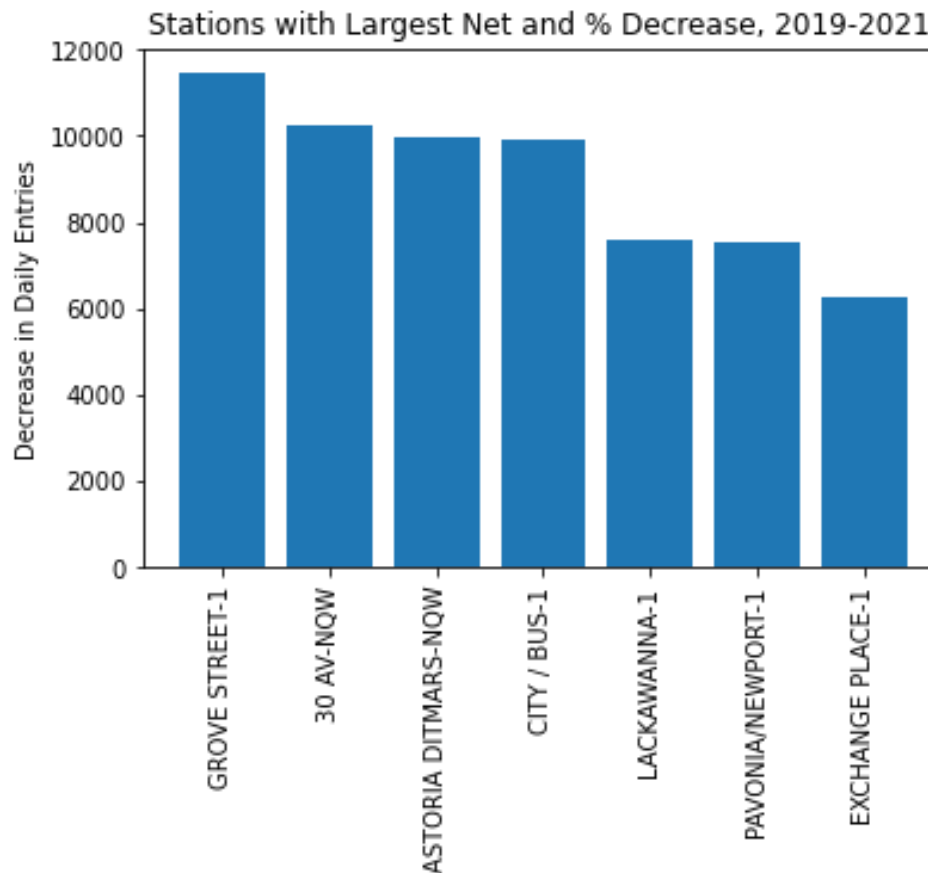


With Masks



Top Candidate Stations

- Top 20 in both Number Decrease AND Percentage Decrease
- All seven are in Astoria or Jersey City



Pitfalls

Separating work-from-home from other confounding factors:

- Unemployment
- Changes in commute modalities (eg walking)
- Changes in MTA lines and services and lines
- Changes in local population density

Thank You!

