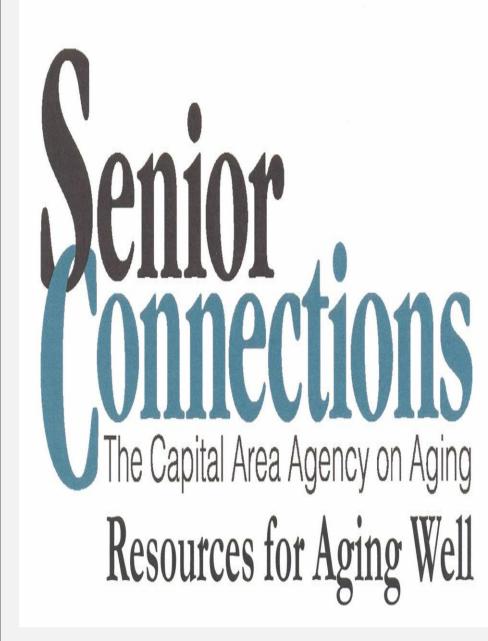


#### **BACKSTORY**

- Senior connection decides to launch a new location in NY city.
- The organization is planning to have a fundraising in New York city which they hope to fill their event space with people passionate about increasing the participation of old people in society by improving quality of life for seniors and find usefulness in their daily tasks.
- To support this gala Senior connections is doubling their effort by sending members to the most busiest location "sub way NY stations" to collect emails from travelers and send free tickets to attend the fundraising.
- My duty is targeting the perfect(most crowded) location at NY subway stations(entries) to place our team by analyzing MTA database during June, July, August 2021 to ease their mobility and collect signatures from the top 5 most crowded entries.



### **TOOLS**

- ANALYSING DATA :
- Python
- Panda
- NumPy
- SQLalchemy
- Matplotlib
- Seaborn

#### **DATA SOURCES**

constrict three months- June, July, August from the MTA database.

Perform a thorough Exploratory Data Analysis of the MTA turnstile data (<a href="http://web.mta.info/developers/turnstile.html">http://web.mta.info/developers/turnstile.html</a>);

## ANALYTICAL STRUCTURING

clean, explore, aggregate, and visualize the data for ENTRIES as appropriate to address the top 5 crowded stations.

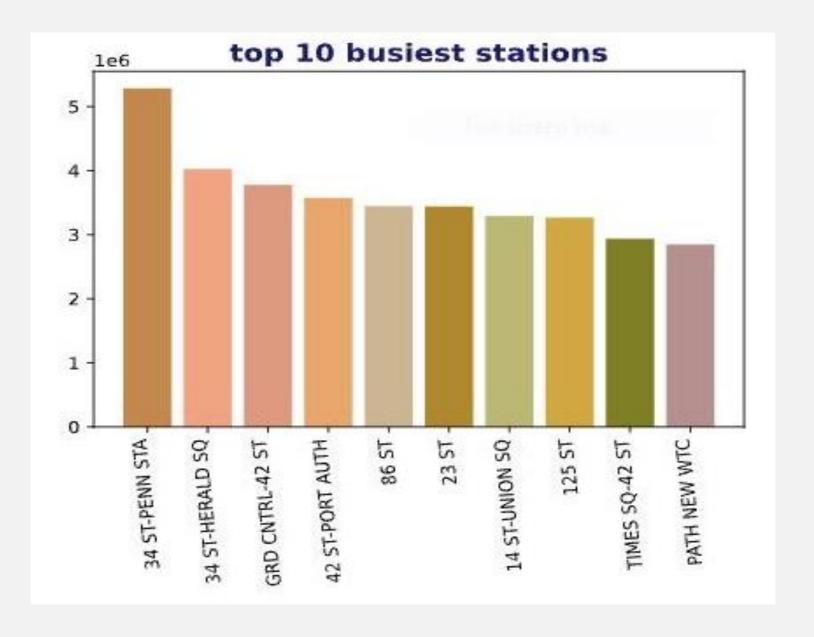
From the top 5 stations plot the daily time series for a station.

Make the same list for another week, and another week ,ets using pandas datetime.

**Use Visualization** 

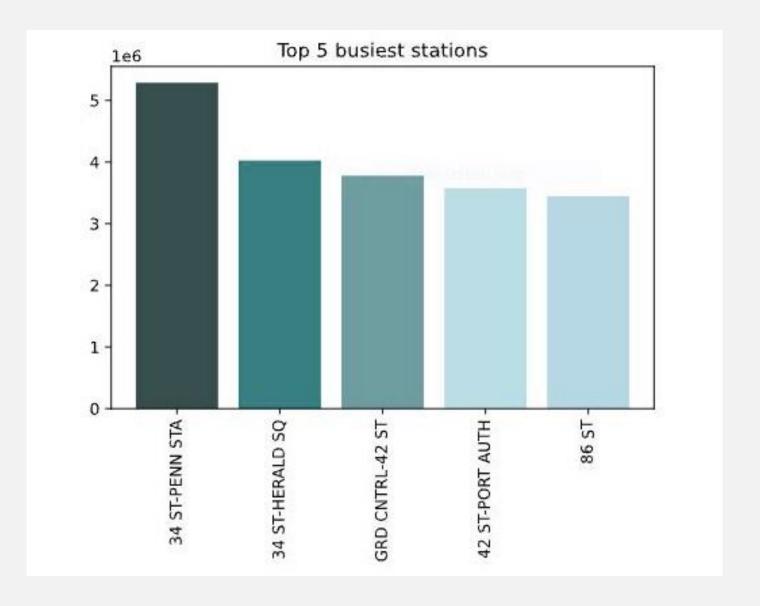
#### **VISUALIZATION**

 Bar plot of the top 10 NY subway
 busiest stations at entries.

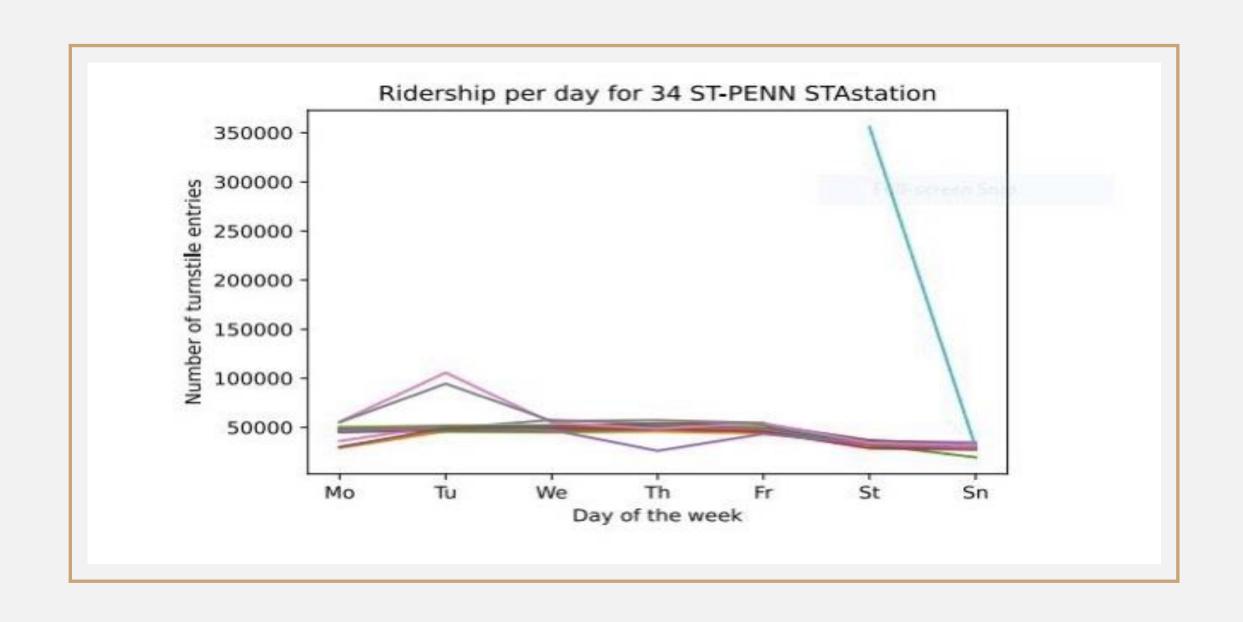


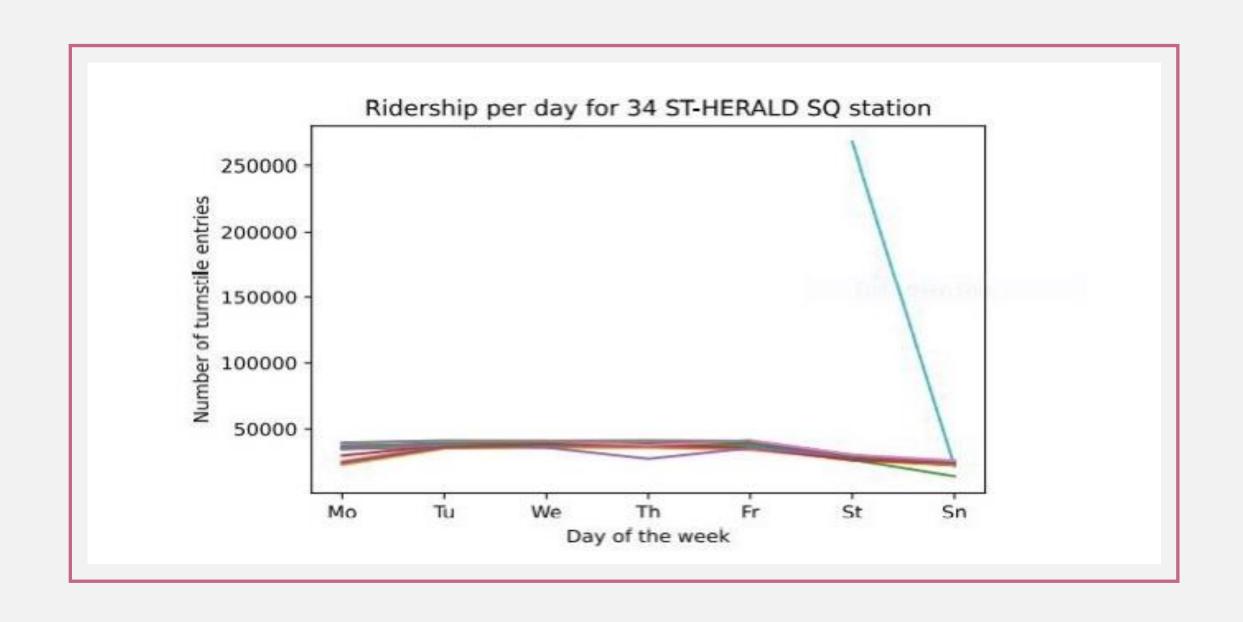
#### VISUALIZATION

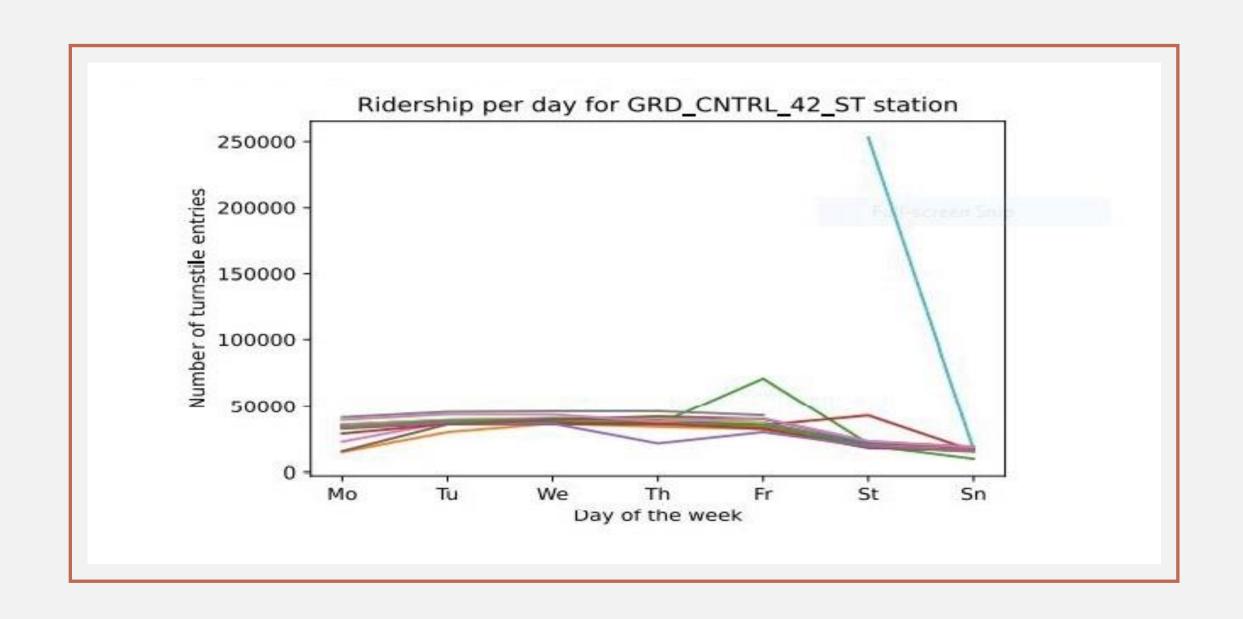
Bar plot of the top 5 NY sub way busiest stations at entries.



# VISUALIZATION OF THE TOP 3 BUSIEST STATIONS AT ENTERIES







## QUESTIONS!