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Project Proposal:

The Senior Connection nonprofit organization located to Richmond - Virginia state has decided to open a new location in New York 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. Senior Connections offers a comprehensive range of home and community-based services for older adults, caregivers, and persons with disabilities in the city of Richmond. As a member of the team, I have been asked to utilize publically accessible MTA data to optimize a perfect location for the team Seniors Connections sending to collect the most signatures, ideally from those who will attend the gala and contribute to our cause.

Question/need:

Senior connections organization benefits from exploring this question and building this data analyzing because by targeting the top 5 crowded stations- entries- at NY subway we will be able to assist our team to collect as much as they can signatures from travelers that will attend the fundraising and make a positive contribution by helping us with their donations.

More importantly, by this analyzing for the MTA data we will help the team of us with their mobility, so they are targeting only the top 5 busiest locations. Here we are saving time and energy and achieve accuracy outcomes.

Tools:

Python

Pandas

Numpy

Seaborn

%matplotlib inline and sqlalchemy.

<http://web.mta.info/developers/turnstile.html>

constrict three months from MTA database – June, July, August

MVP Goal:

A minimum viable product for this project would be some visualizations detailing the most trafficked subway stations at the entries.

plot the daily time series for top 5 busiest stations. Make one list of counts for **one** week (list of 7 days total) for one station and display plot of weekly commute numbers on top of days.

Find out the most busiest days for the top 5 busiest stations at entries.