MTA Wi-Fi Solution for New York Subway Stations

Analysis done by Fatemah Alshaikh October 9, 2021 _

Project Motivation

The New York Subway System is the largest of its kind in the world. Over 400 stations across the state, connecting over 5.5 million commuters to all ends of New York on a daily basis.

In our Era, Technology drives our day from dawn to dusk. Everything we do, we do it through the internet. Emails, Bookings, Social Media, Video Games, etc. And while the average person spends a considerable time commuting to and from the workplace, the Metropolitan Transportation Authority (MTA) believes that it's important to cope up with the need of this age and time and provide the convenience of being connected inside the station and trains to its daily commuters.

Project Objective

To devise the MTA with the top visited stations in order to prioritize them in the initial working plan for installing and operating the Wi-Fi Network.

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Data & Tools

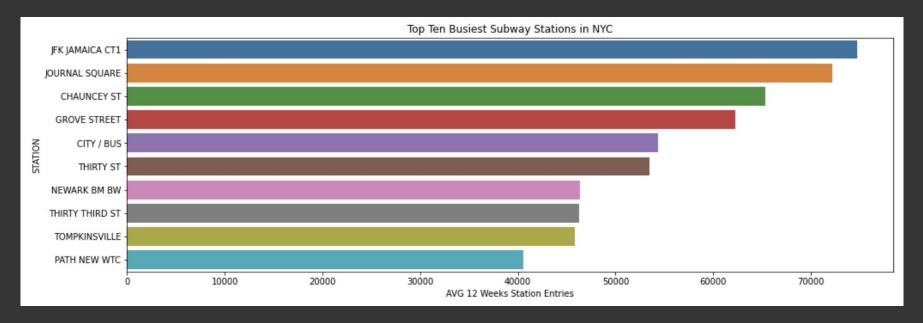
Data:

The MTA have provided us with a dataset that include the daily and hourly exits and entries for each station for the three months spanning from July to September of 2021.

Tools:

- Numpy and Pandas for data manipulation
- SQL for creating a local database with the MTA Dataset
- Matplotlib and Seaborn for plotting

Findings



The Top stations are the stations that falls within Transportation hub premises, in close proximity to tourist attractions, or the ones that connects other states to New York.