

Kingdom of Saudi Arabia SDAIA Academy T5_bootcamp



EDA | Exploratory Data Analysis

For RSTABUS Imaginary Bus Company

Prepared by Raghad Rashed Al-Sager

Supervised by Dr. Mohamed Baddar.



A 1 2 Assumptions

- 1. the busiest stations of demographic or location and do not have bus service. is an aim to work on most of my analysis.
- 2. I assumed that the date of the event would be on the period form (Jul to Oct 2021), to focus on collecting only the last data from the MTA and to get the latest results.
- 3. After knowing the locations of the highest stations traffic and not having bus service, RSTABUS will be able to start drawing up a business plan to provide the service to customers.
- 4. Knowing the traffic throughout the day will be sufficient to determine the number of buses that will be provided and to determine their operating times.
- 5. Bus stations will be built based on the most traffic stations only.



DATA PREPARATIONData cleaning

CHECK FULL SUMMARY

A QUICK TRIP TO DECODE THE INFORMATION FROM PROVIDED ON DATASETS.

SOLVING PROBLEM -

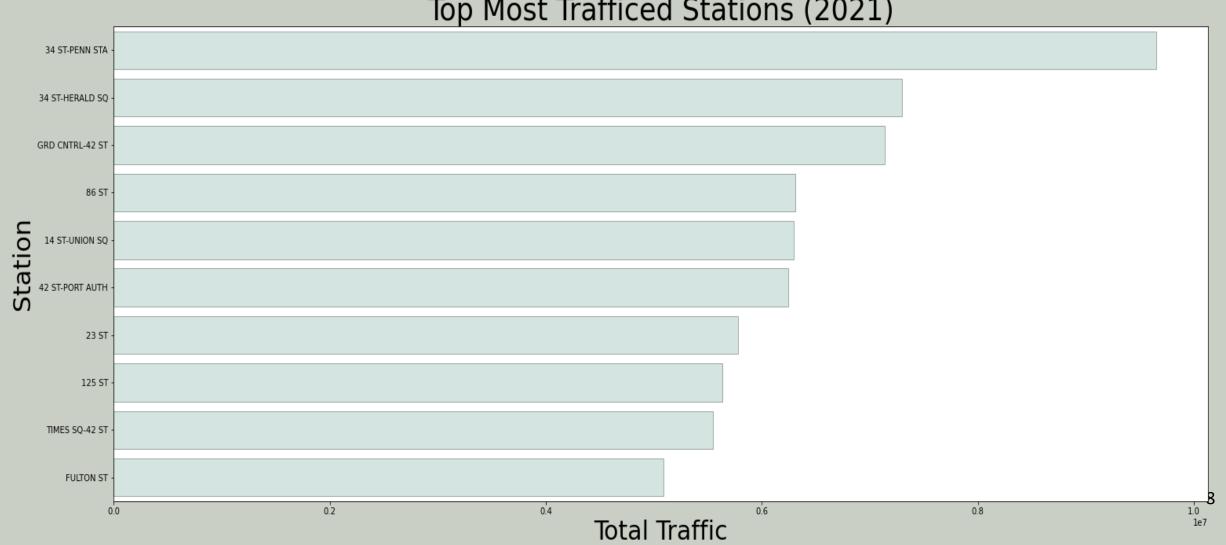
CUMULATIVE, REST, AND REVERS ISSUE-OUTLIERS

EXTREMELY HIGH COUNTS (OUTLIERS)

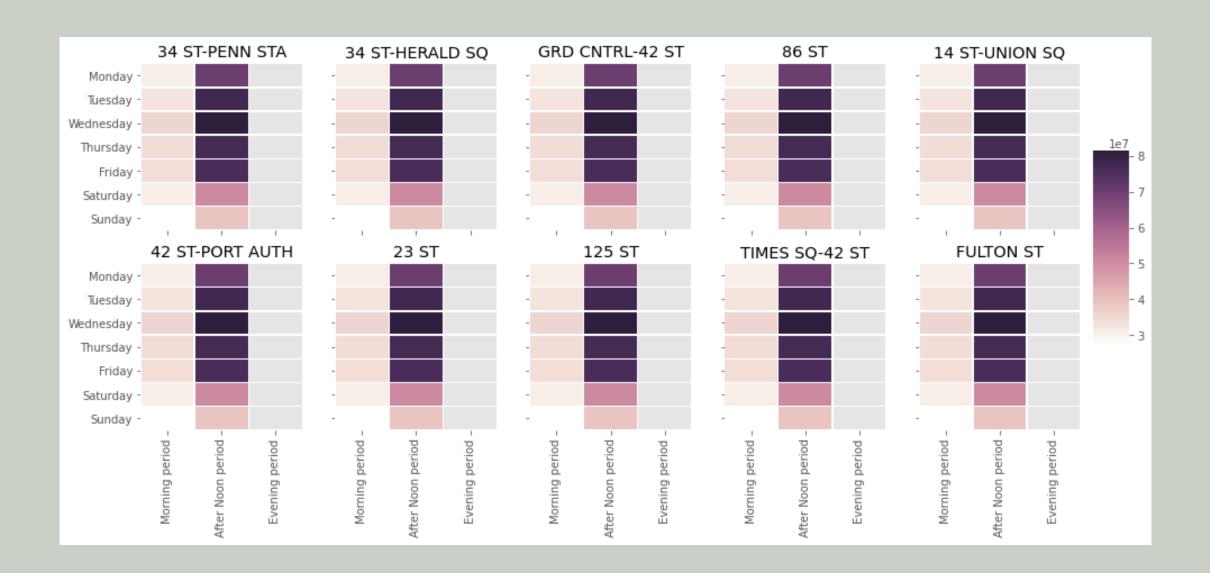


RESULTS

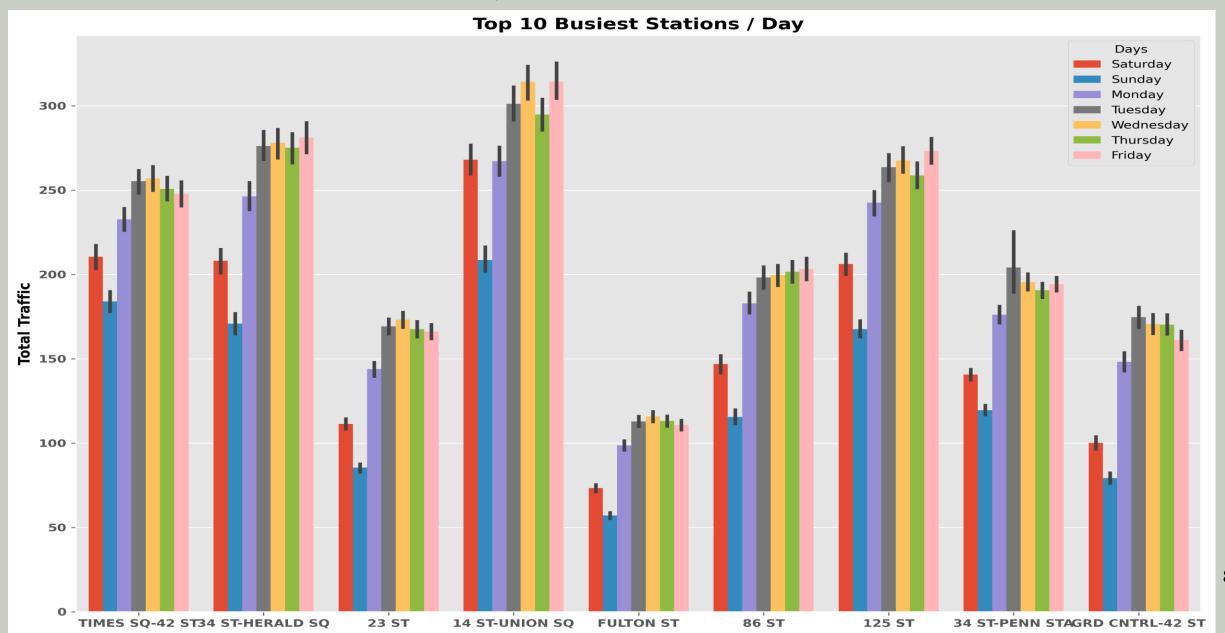
Top Most Trafficed Stations (2021)

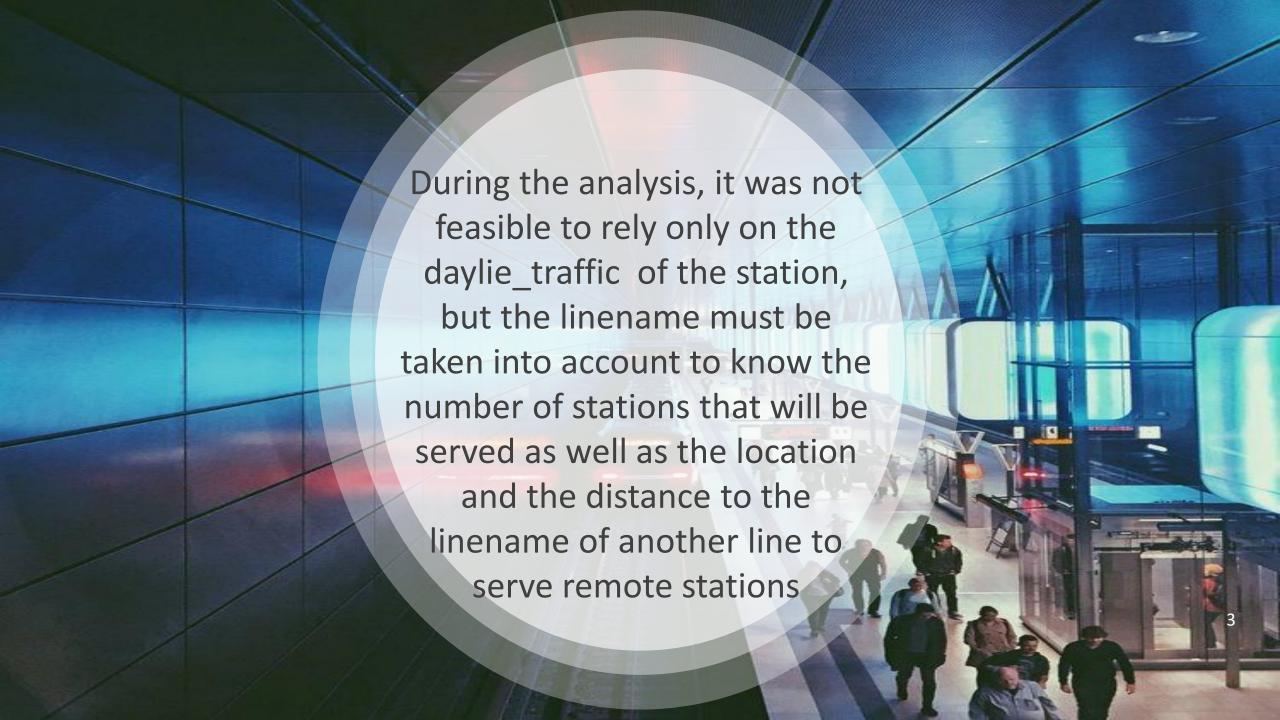


RESULTS



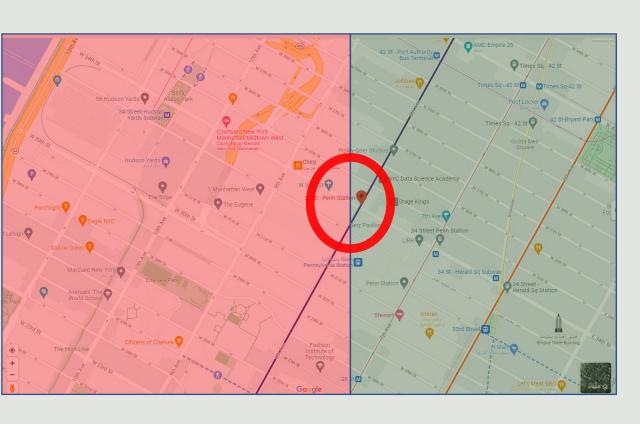
RESULTS

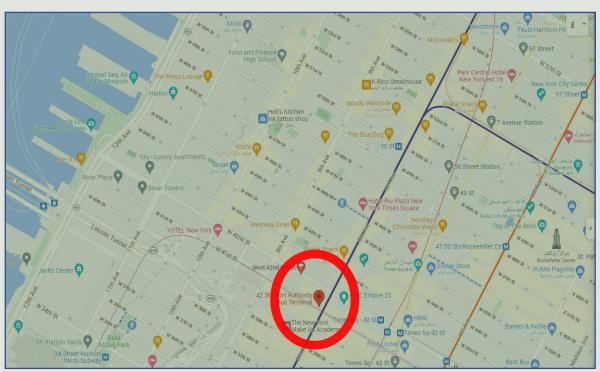




34 St - Penn Station

West 42nd Street





Feature work

-• GEOMAPPING CONNECT THE DATABASE TO THE MAP TO KNOW THE RIGHT LOCATION
ANALYSIS WITH LINE NAME
BUS SERVICE FOR LOW-TRAFFIC AREAS

- OTHER VISUALIZATIONS SUCH AS INTERACTIVE PLOTS
- PLOTLY, BOKEH





Thank you for listening.