

MTA Traffic Analysis

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Introduction

- The Children's Scholarship Fund (CSF) is a non profit organization based in New York City.
- Aims to maximize educational opportunity for all children by offering tuition assistance.
- The organization wants to find the top five subway stations located in Manhattan with the highest foot traffic to promote their services.



Data

- MTA turnstiles dataset containing cumulative entries and exits of each turnstile in each station in NYC.



Data

- Dataset starts from the beginning of 2021 up to October 9th.
- Only Manhattan stations were selected.



Data Cleaning



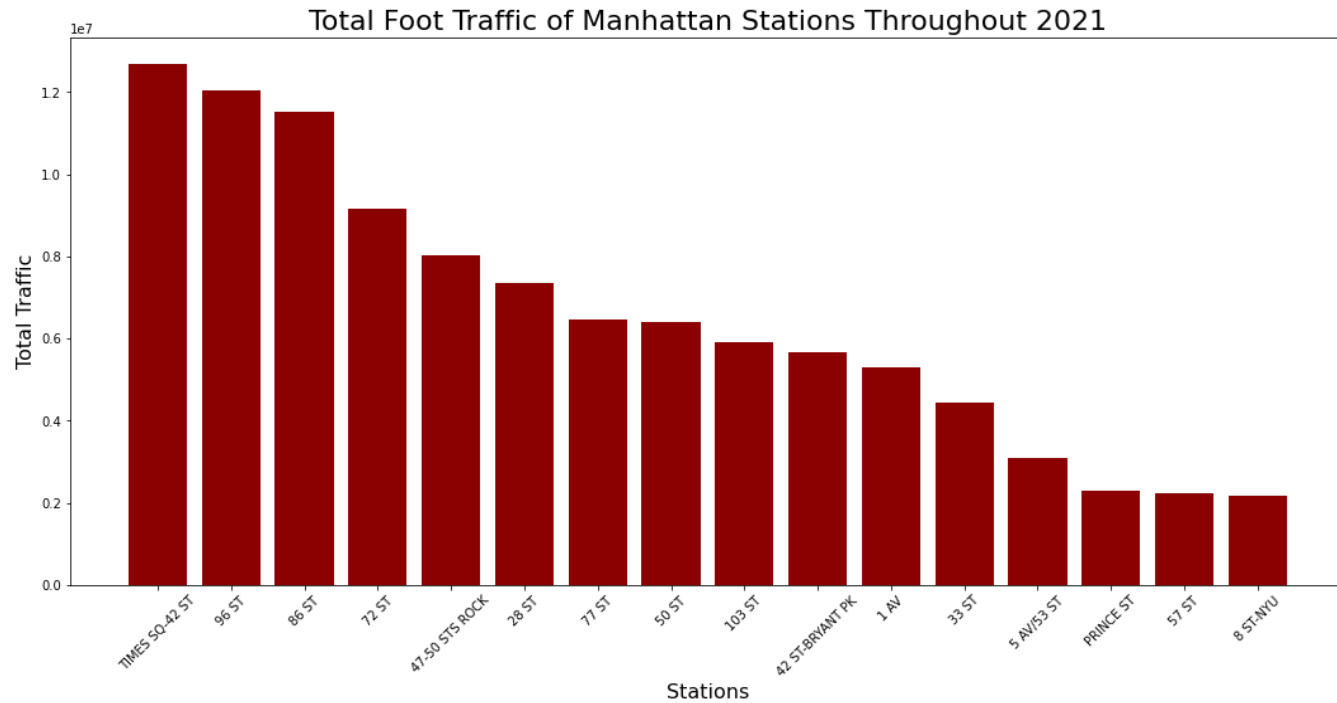
```
graph LR; A[Calculate Daily Entries, Exits, and Total Traffic] --> B[Find and Drop Anomalies and Outliers]; B --> C[Get Day of The Week From each Date]
```

Calculate Daily
Entries, Exits, and
Total Traffic

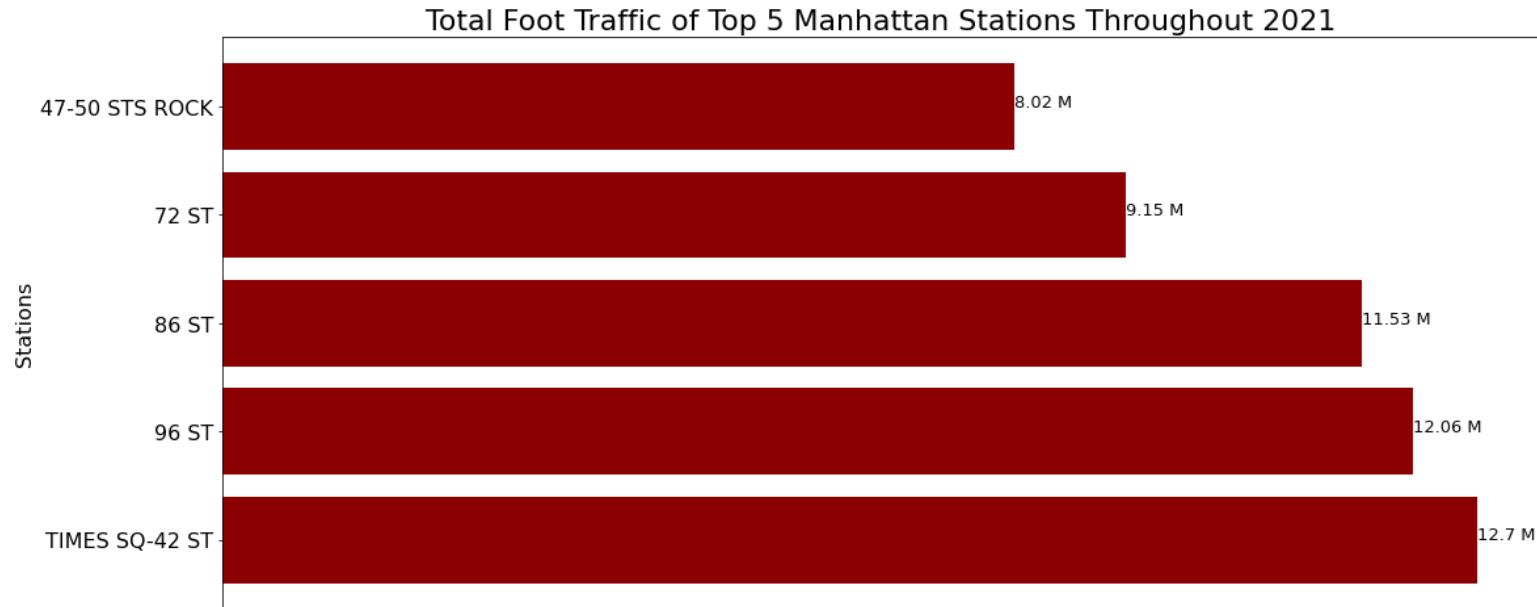
Find and Drop
Anomalies and
Outliers

Get Day of
The Week
From each Date

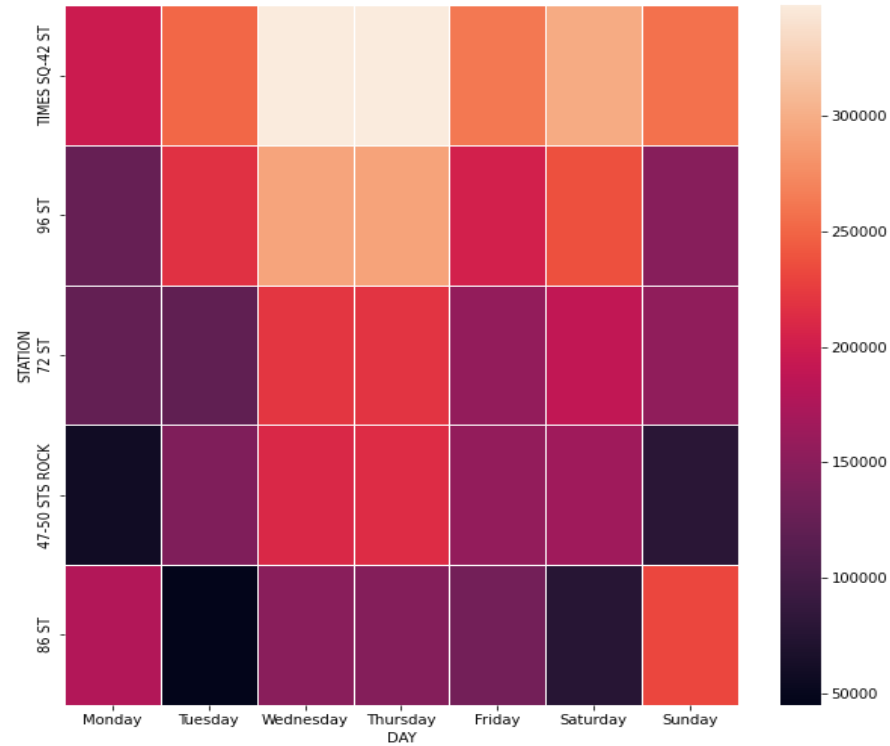
Graphs



Graphs



Graphs



Conclusion

- Top 5 stations in-order:
 1. Times Square - 42nd Street
 2. 96th Street
 3. 86th Street
 4. 72nd Street
 5. 47th – 50th Streets Rockefeller

Conclusion

- Days with highest foot traffic:
 1. Wednesday
 2. Thursday

Thanks for Listening