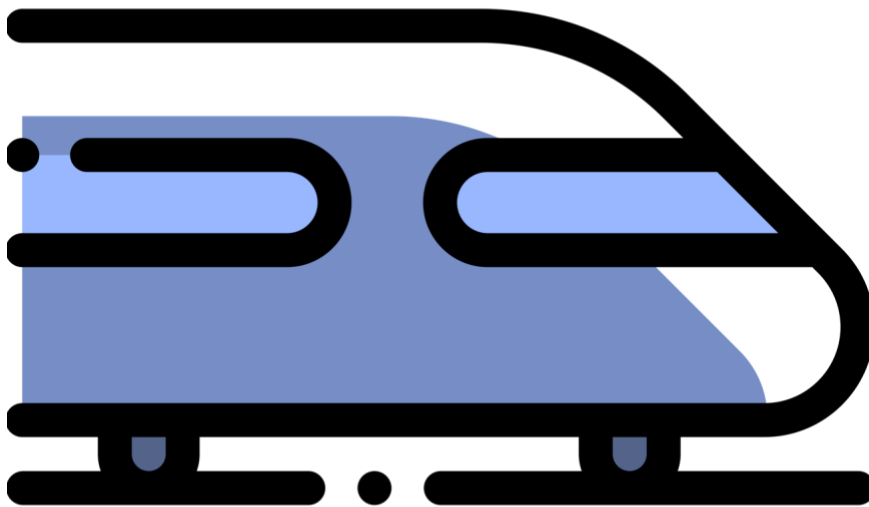


# MTA DATA UTILIZATION

AUG 30, 2021



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## Overview

The development of new technologies via the utilization of data science in transportation has helped a lot in recent years, it has been widely applied in different countries to make use of the data provided by different stations in a certain city of the same company, wherein this project I am going to be showing the best area for opening a mall near to one of stations in New York by using the data provided by The Metropolitan Transportation Authority (MTA) which is North America's largest transportation network, serving a population of 15.3 million people across a 5,000-square-mile travel area surrounding New York City [1].

## Data description

The data provided by the Metropolitan Transportation Authority (MTA) includes different variables such as Station, Date, Time, Entries, and Exits, those columns are going to be useful when applying different data exploration by using methods and techniques as I am going to use the period from approximately June to August 2021 (three months) to recommend the best station for opening the mall.

## Tools

The tools that I am expecting to use for the MTA project is Jupiter notebook by the programming language Python and via the use of different packages and libraries such as NumPy and Pandas for data analysis and Matplotlib and Seaborn for data plotting and Visualization

## Conclusion

The goal of my exploration is to recommend the best solution for opening a mall near one of the stations in New York, my approach is to use the data provided by MTA to recommend the best station for opening the mall, as I am going to check the station with the highest amount of ridership and exists and entries and see the weekdays differences and convince investors to help invest the mall, and as for the MVP, I am going to be presenting different blots such as a bar chart and another Visualization techniques, lastly to ensure that the goal is reached and approached effectively.

## Reference

1. MTA. 2021. About Us. [online] Available at:  
<<https://new.mta.info/about-us>> [Accessed 30 August 2021].