# Exploratory Data Analysis for Scooter Rental Application

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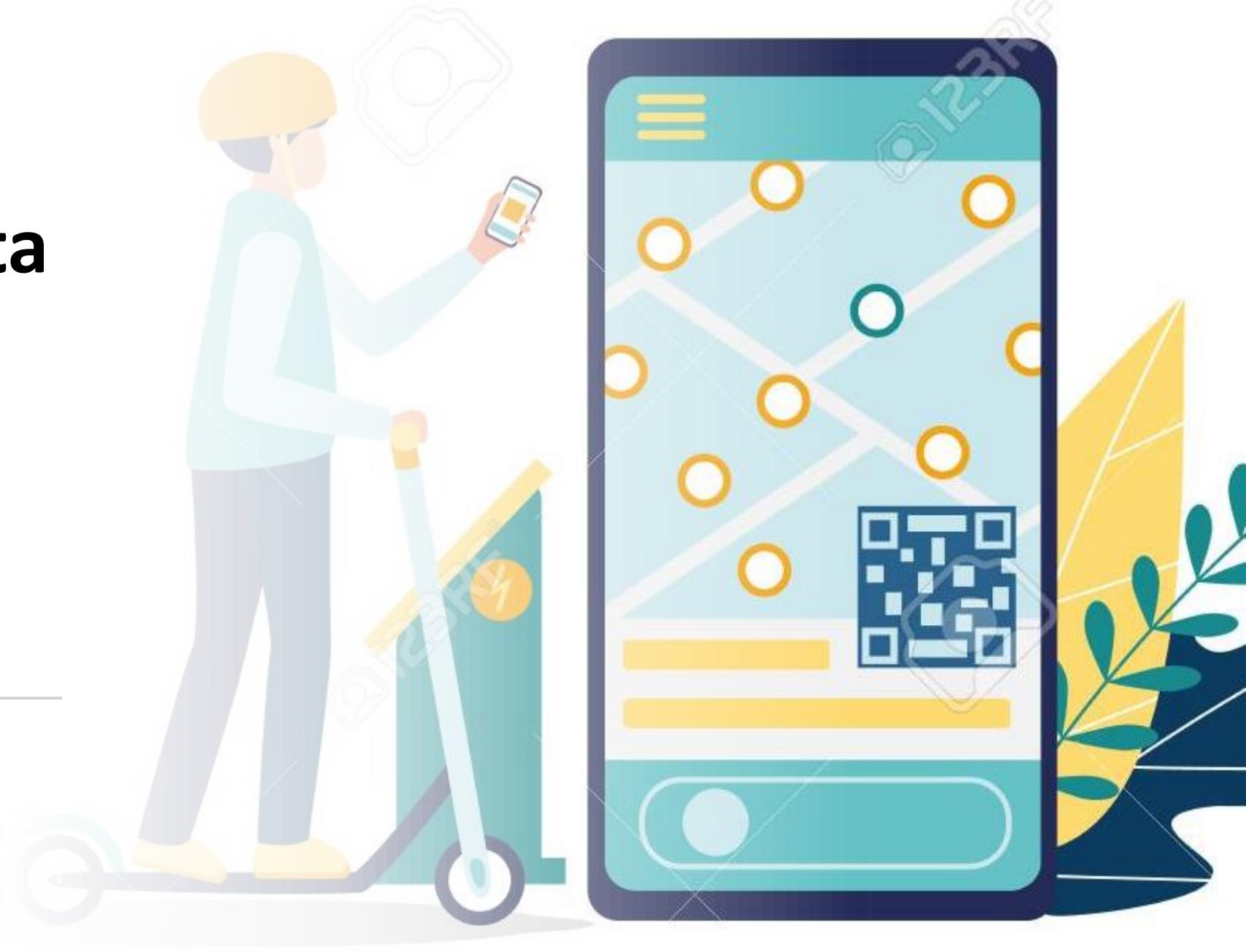


# Introduction

- Scooter rental lets you rent an electric foot scooter for a quick errand,  You rent the nearest available scooter, ride it to where you want to go, and leave it responsibly parked for the next person to ride.
- Where is the most suitable places to distribute the scooters ?

# Scope

The recent 4 months (Jun -sept)

The excites only needed

Analysis on the to stations on the Morning or evening

# Methodology

## DATA COLLECTION

- MTA Turnstile Data.
- Gathered the datasets on single one database using sqlalcemy.

## DATA UNDERSTANDING

- Understand the data.
- Understand the columns and what they represent.

## DATA CLEANING

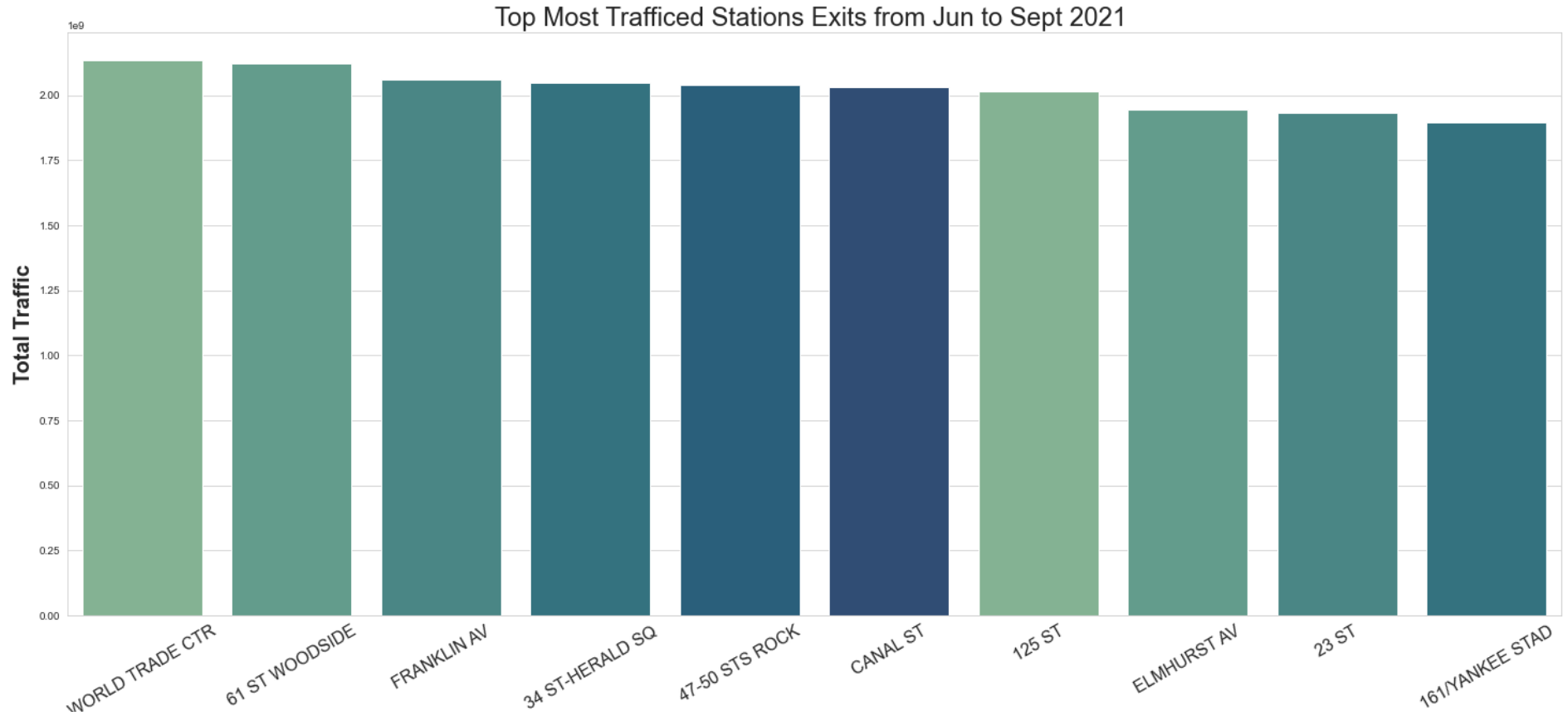
- Deleted the duplicated values.
- There were no null values .
- Add the datetime column to calculate the traffic in the morning and evening .

## DATA VISUALIZATIONS

- Used matplotlib and seaborn to do Data visualization.

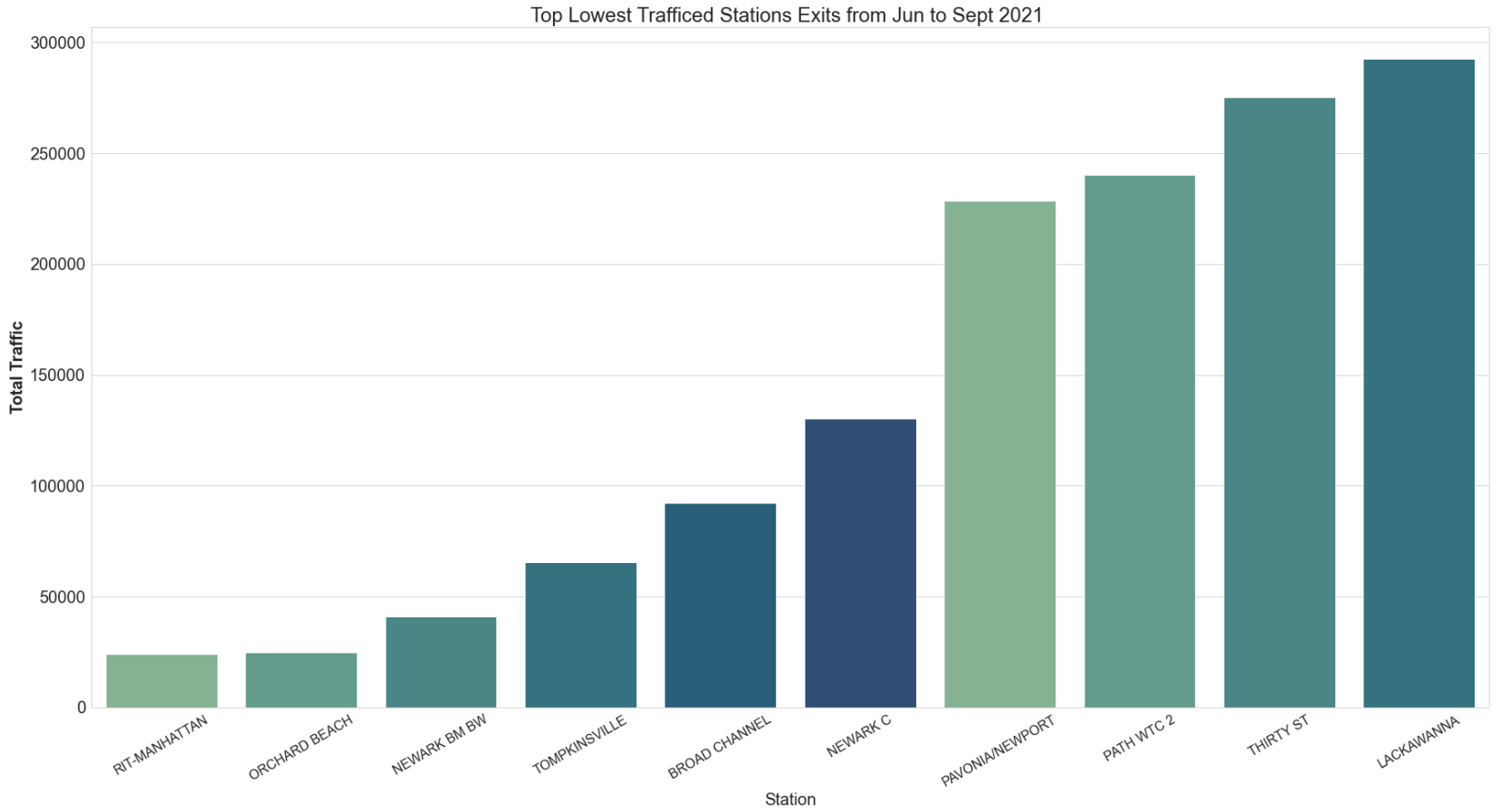
# Top 10 most traffic stations

- The cumulative exits maximum – minimum .
- there is no noticeable difference between the top 10 stations.



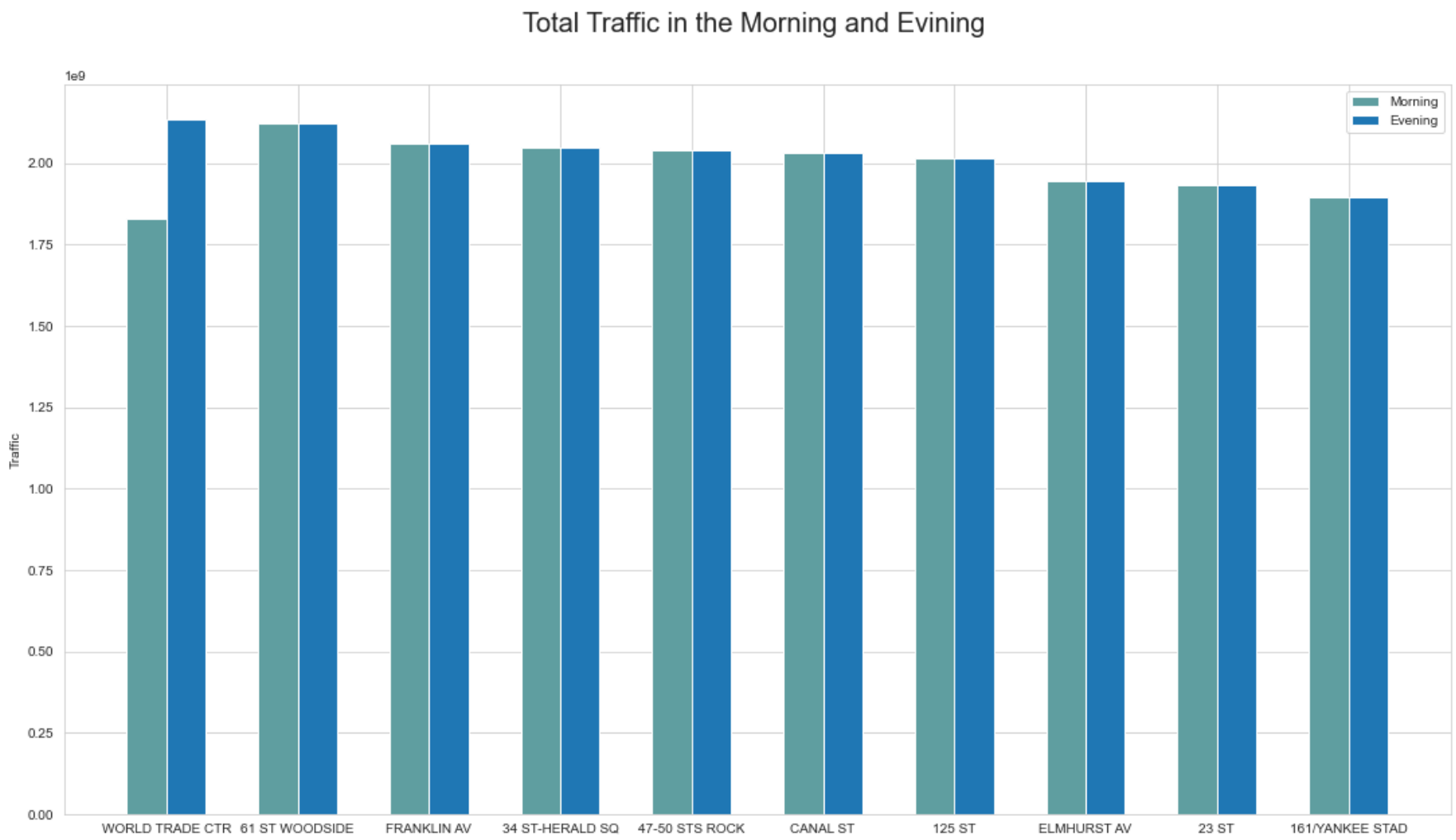
# 10 low traffic stations

- The cumulative exits maximum – minimum .
- There is a difference between the top 10 stations and the lowest trafficked stations.



# Total traffic in the morning and evening

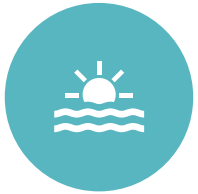
The top 10 stations



# Conclusion

the scooters will be most needed in the top 10 crowded stations.

There were clear difference between the top 10 and lowest stations.



There is no noticeable difference between the Morning and Evening.

# Thank you