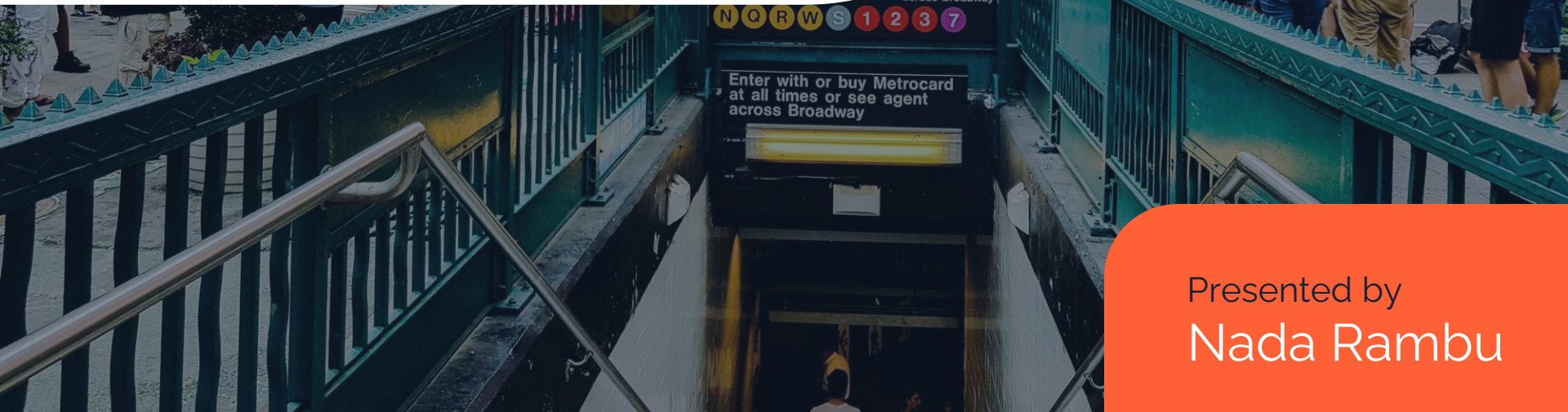


SDAIA Academy T5C04 Bootcamps: Data Science
EDA Module Project Presentation

MTA Turnstile Data: an exploratory analysis



Presented by
Nada Rambu



1

Problem and Solution

Project background and objectives

Women Tech Women Yes (WTWY)



What is missing?

They need to know the most crowded subway stations

How can data help?

By exploring and analyzing the turnstile data of the stations



Assumption

A specific pattern can be found in the data of the same season

A dark blue background image showing a close-up of a subway train door. On the right side, there is a circular logo with the MTA logo (a blue circle with 'MTA' in white) and the text 'New York City Subway' in blue. On the left side, there is a yellow triangular warning sign with a black border and a black symbol.

2

Data Acquisition

Bringing the data from the its source to be processed

Database



Amazon Web
Services



Amazon **RDS**



Postgre**SQL**

3

Data Cleaning

Preparing the data to be plotted

Data Cleaning

A.

Standardize column names

C.

Converting the merged column to `datetime` data type

B.

Merging Date and Time columns

D.

Removed duplicated rows

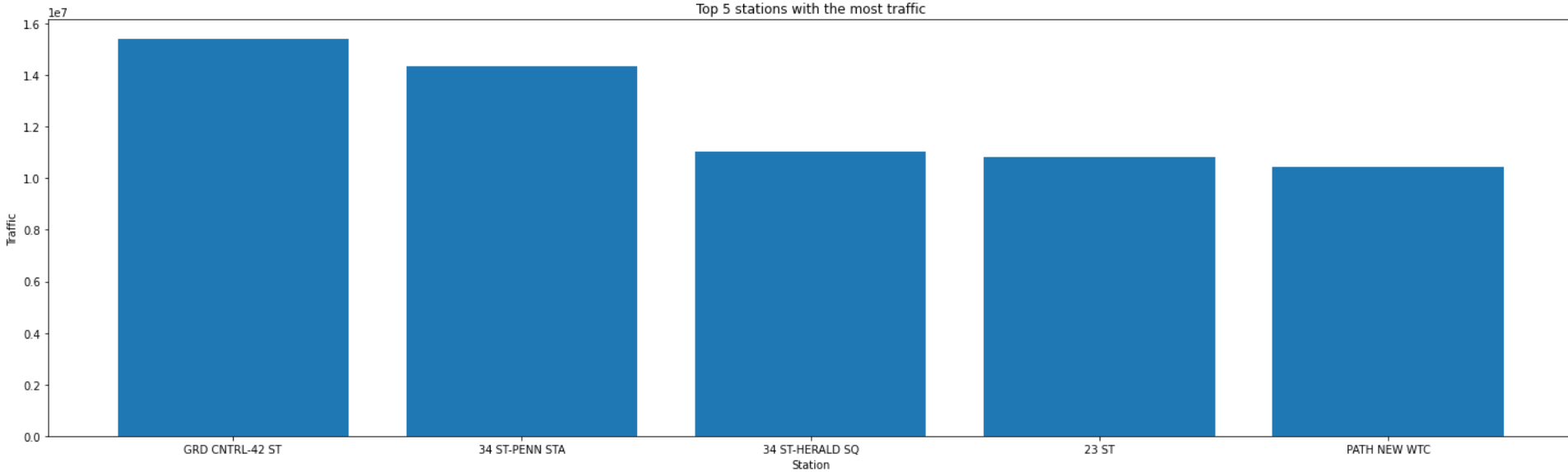
4

Data Visualization

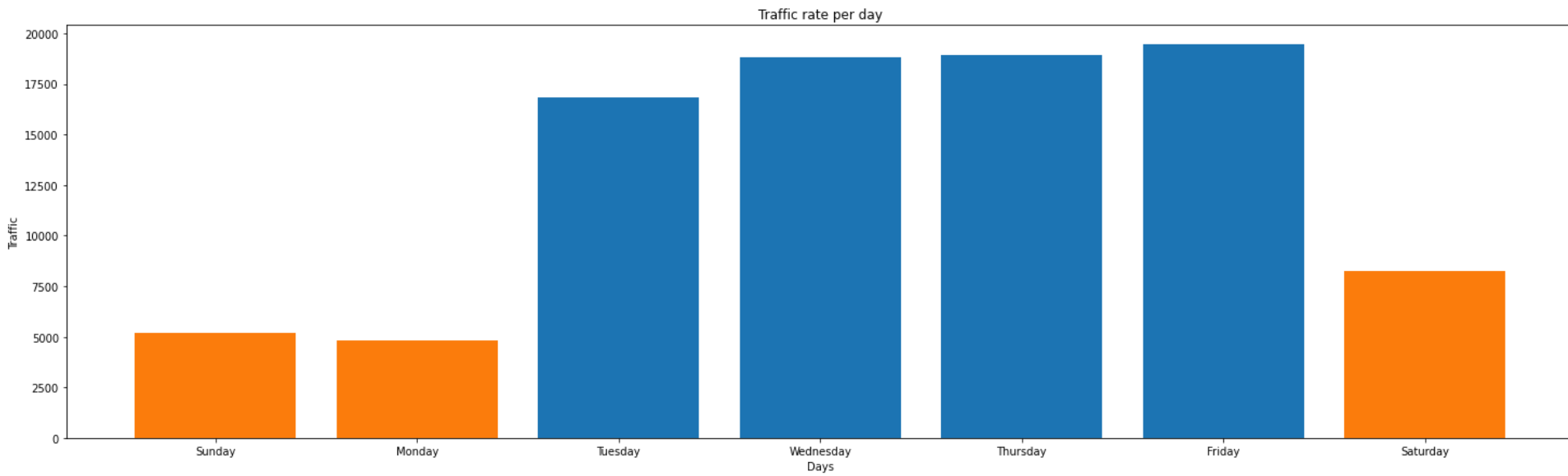
Gaining insights from the data



Graphs



Graphs





5

Conclusions

Some recommendations to solve the problem

Recommendations

Top 5 stations with the most traffic:

1. Grand Central-42 St.
2. 34th St.-Penn
3. 34th St.-Herald Square
4. 23rd St.
5. World Trade Center

Top 3 weekdays with the most traffic:

1. Friday
2. Thursday
3. Wednesday

Recommendations



I recommend WTWY to focus on placing their street teams on **Grand Central-42 St., 34th St.–Penn, 34th St.–Herald Square, 23rd St., and World Trade Center** stations on **Friday, Thursday, and Wednesday.**



Thank you!

No questions please