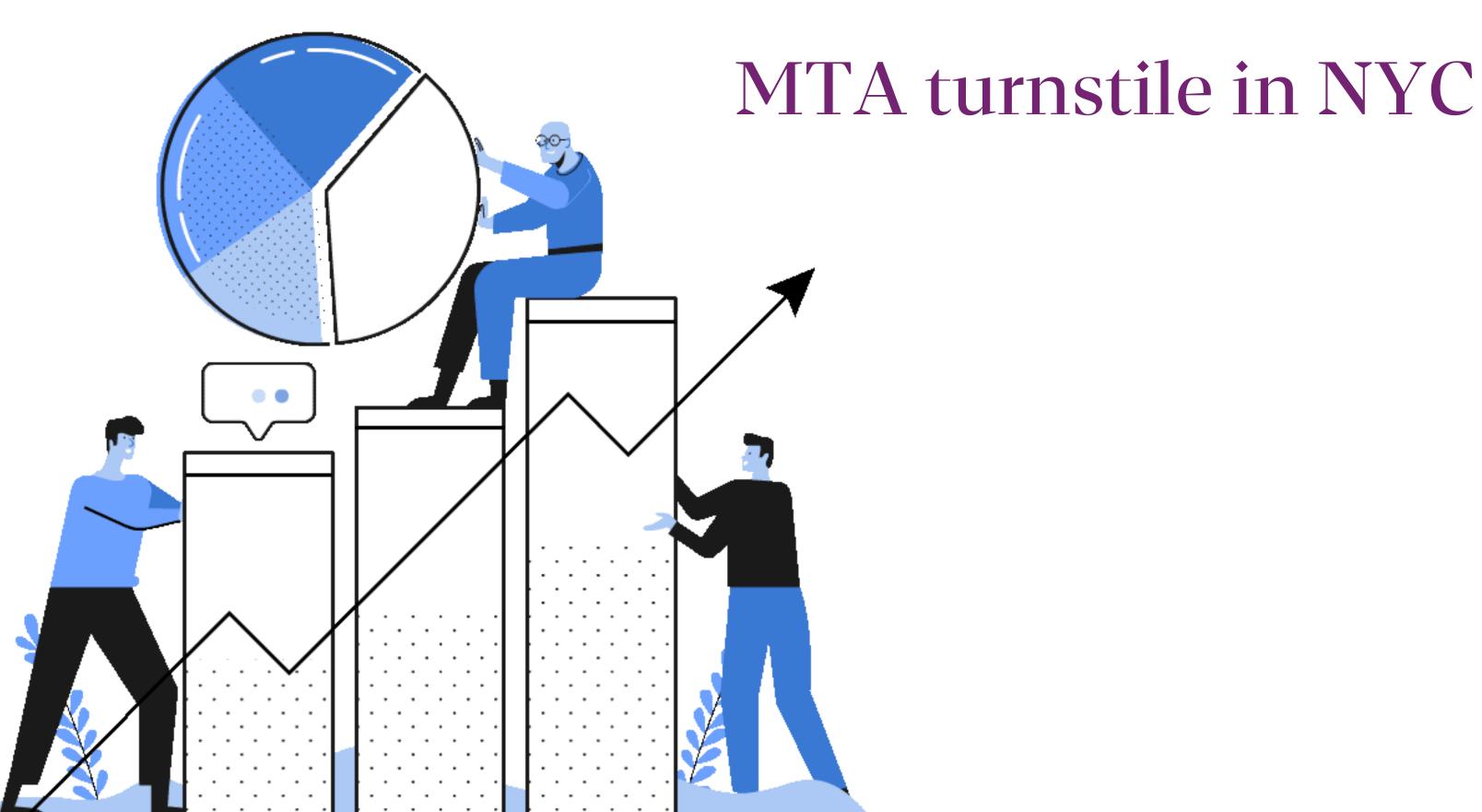
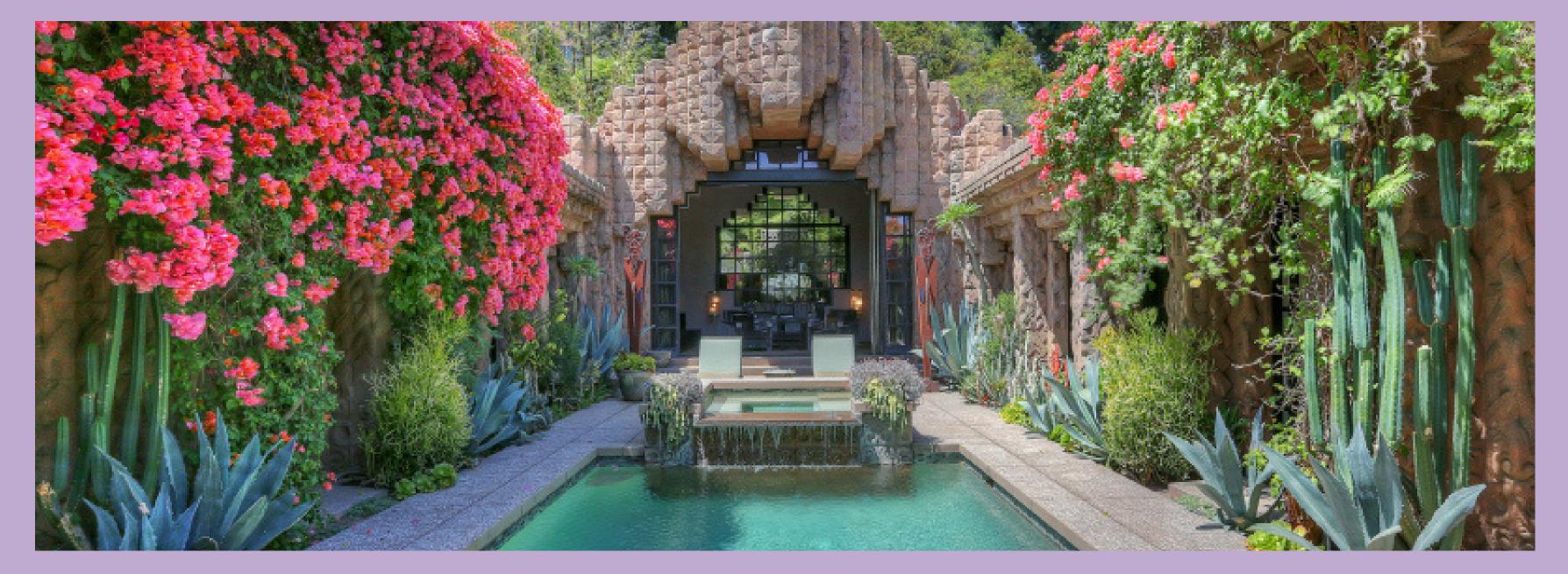
Exploratory data analysis for





Advertising campaign for new resort in nyc

Hello

We are Emily and Henry
Marketing Team of Palma Resort Company

A new resort that provides the family with entertainment, relaxation and great times.

We will open the resort on April 1 and will conduct an advertising campaign pre and during first week opening

We have a budget of 5 billboards that we want to distribute in the most crowd subway stations in different divisions where it will cover a wide geographical area

As we said, we will start opening the resort's doors on April 1

The AD shows that the resort is a beautiful destination to spend wonderful time with the family during the spring break

In your opinion, as a data analyst, can you help us with: determine most crowded stations in different divisions where the billboards will be distributed

The Target:

determine most crowded stations in different divisions where the billboards will be distributed



Data •

The dataset contain MTA turnstile data with 3 months worth of data for january ,february and march .

Algorithms o-o

Perform a thorough Exploratory Data Analysis of the MTA turnstile data; clean, explore, aggregate, and visualize the data as appropriate to address the client's needs.

Tools •

Numpy and Pandas for data manipulation ,Matplotlib and Seaborn for plotting , SQLalchemy

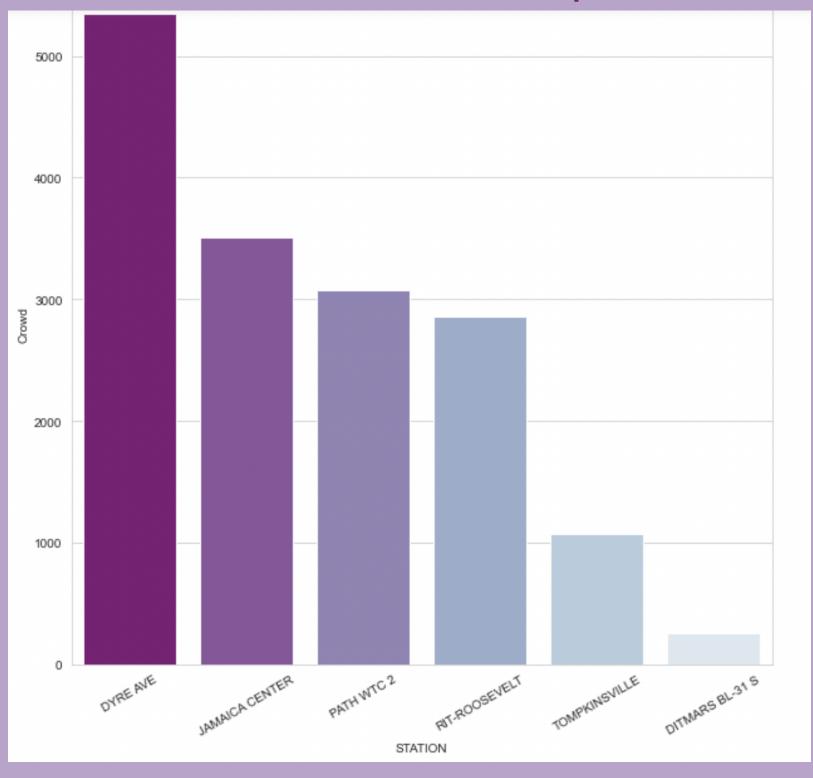
checking crowded stations by adding daily entries to daily exits

This is most crowd stations but some of it share same division !!! then i did not reache the goal yet

By using sqlalchem:

0 DYRE AVE IRT 5344.0 1 JAMAICA CENTER IND 3512.0 2 PATH WTC 2 PTH 3076.0 3 RIT-ROOSEVELT RIT 2862.0		STATION	DIVISION	Crowd
2 PATH WTC 2 PTH 3076.0 3 RIT-ROOSEVELT RIT 2862.0	0	DYRE AVE	IRT	5344.0
3 RIT-ROOSEVELT RIT 2862.0	1	JAMAICA CENTER	IND	3512.0
	2	PATH WTC 2	PTH	3076.0
	3	RIT-ROOSEVELT	RIT	2862.0
4 TOMPKINSVILLE SRT 1070.0	4	TOMPKINSVILLE	SRT	1070.0

Most Crowded Stations in Unique Divisions



The main point in this exploratory data analysis I looking for most crowded stations in different divisions: the resulte is:

- DYRE AVE from IRT
- JAMAICA CENTER from IND
- PATH WTC 2 from PTH
- RIT-ROOSEVELT from RIT
- TOMPKINSVILLE from SRT



By Exploratory data analysis i reach my main target and and deliver it to Palma Resort Company





THANKYOU for listening