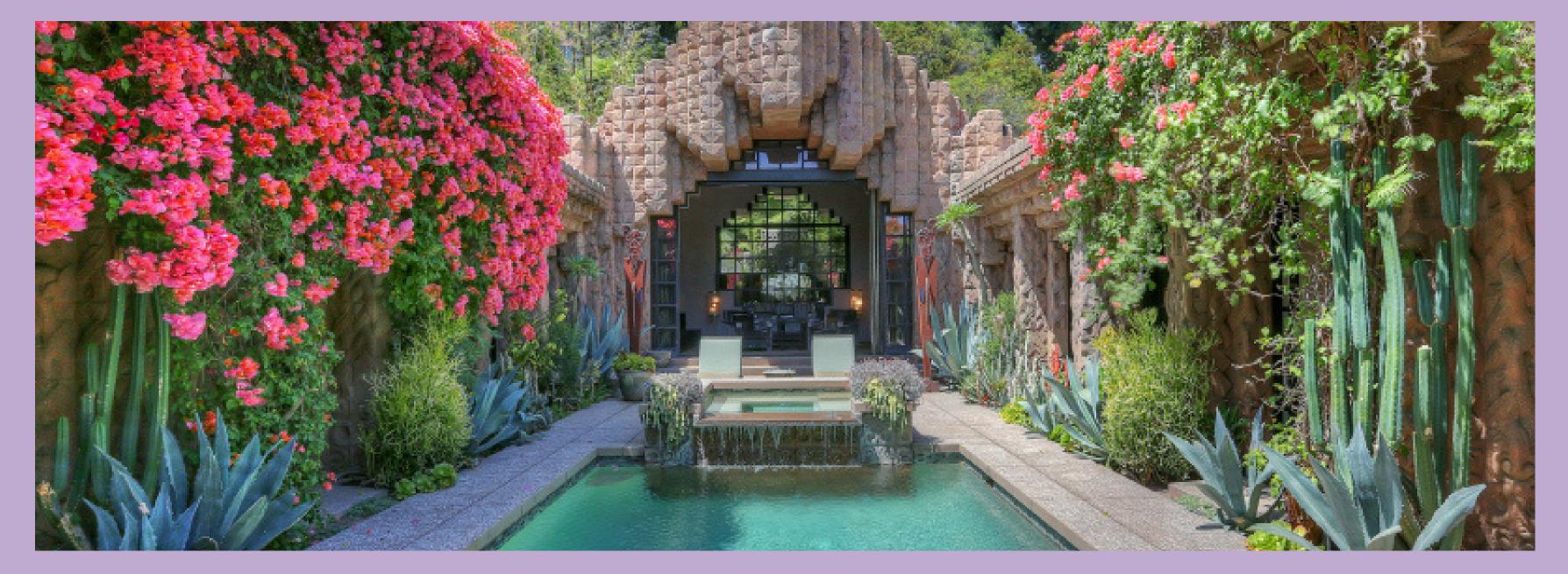
Exploratory data analysis MTA



turnstile in NYC



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

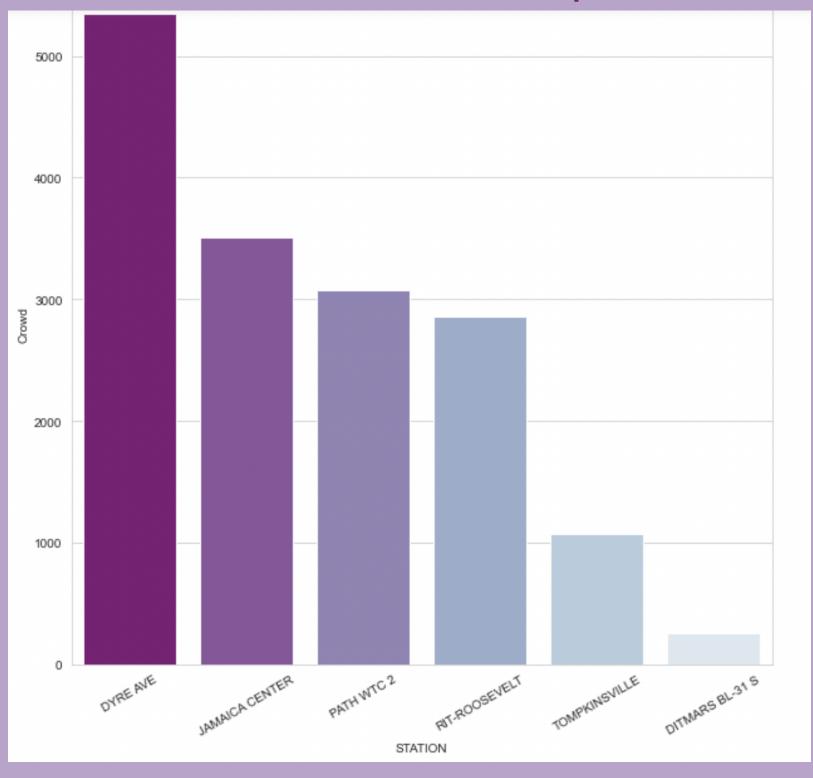
checking crowded stations by adding daily entries to daily exits

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

By using sqlalchem:

	mean	std
STATION		
1 AVE	1584.208308	24121.989981
103 ST	2365.642734	17614.003373
103 ST-CORONA	2450.142261	12603.745876
104 ST	2502.814128	14441.033563
110 ST	3387.198944	25870.718312

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