The Tourism Company

Question/need:

The Newuture Company is one of the new US's tourisms. Newuture will create experiential travel opportunities for tourists coming to US, and enhance the US regional and global positioning in the wider tourism sector.

After meeting, we have the following requirements to achieve:

1- They want to know the average number of passengers in each station and find out the nature and important of this station to start advertising their brand (promotional distribution, survey, …etc.)
2- They try to catch the peak time so they will send their employee to advertising for people who don't the company
3- Their journeys will be planed based on the number of train with less number of passenger are there and the graphical location of the station (near to peach, have mountains for highking,… etc.)

This project will help the Newuture company and the passenger to get better services .

Data description :

I will use historical data from MTA's turnstiles, deciding to focus on data from July to September 2021. MTA dataset have several Columns and I will focus on:

1- STATION = Represents the station name the device is located at to find out position of channel which have most number of passengers
2- The passenger will be predictive from :
ENTRIESn = The cumulative entry register value for a device
EXISTn = The cumulative exit register value for a device
DATE = Represents the date (MM-DD-YY)
TIME = Represents the time (hh:mm:ss) for a scheduled audit event

Tools:
1- Python(sqlalchemy Numpy and Pandas) for data manipulation
2- Matplotlib and Seaborn for plotting