THE IMPACT OF COVID-19 ON NYC SUBWAY ENTRIES

How did the data reflect people's lifestyle changes after the pandemic

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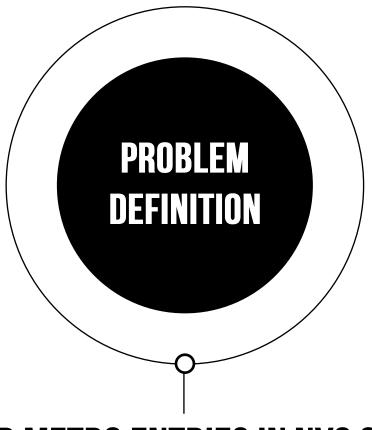
- Cleaning the data
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- 00110200101

Results

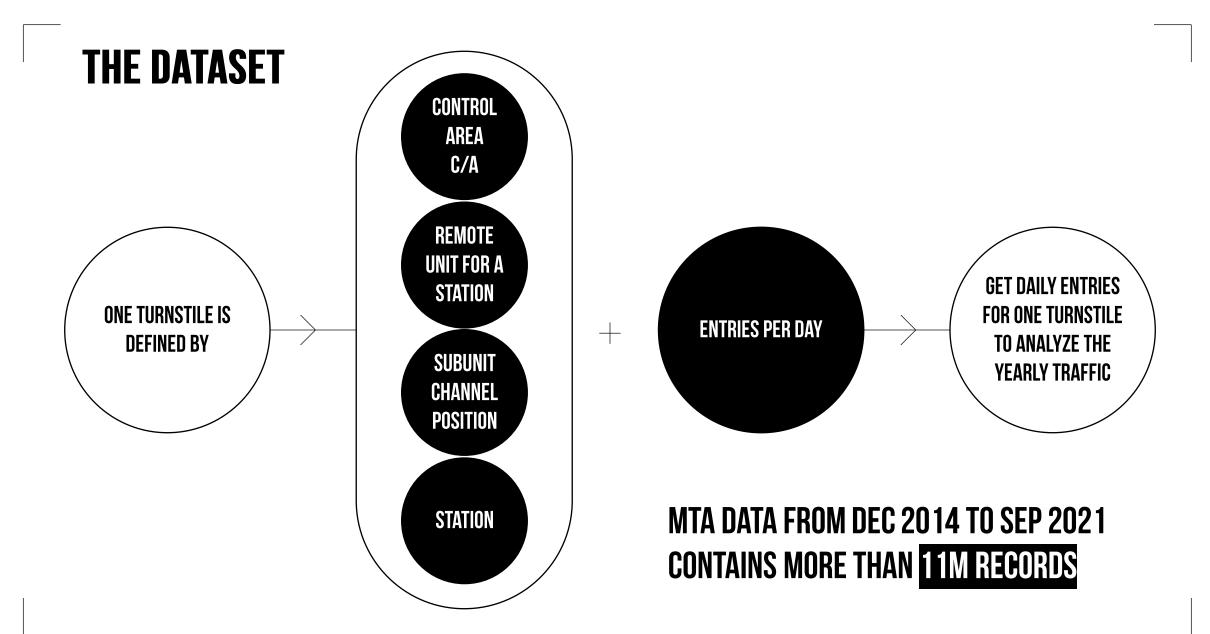


INTRO

What is the data and what is the problem we are trying to solve?



HOW DID METRO ENTRIES IN NYC CHANGE AFTER THE PANDEMIC?



USED DATASETS

WHY COVID-19 DAILY COUNTS?

To find if the increase of entries could possibly correlate with the increase with the increase covid-19 cases.



01.

MTA DATA

The Metropolitan
Transportation Authority is
North America's largest
transportation network.
Accessible here.

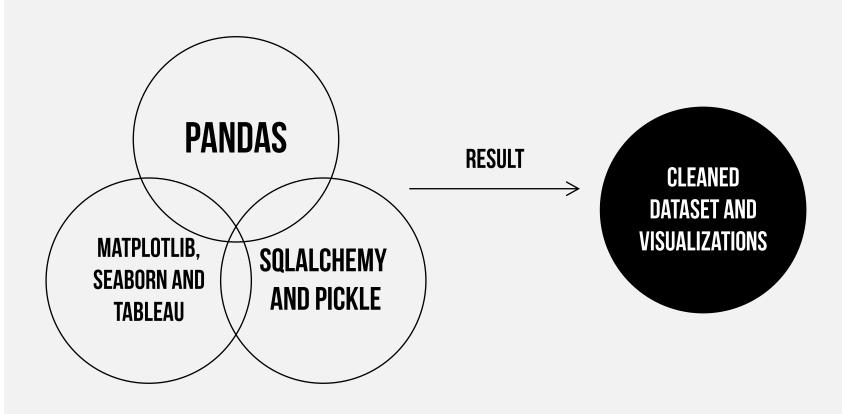
02.

COVID-19 DAILY COUNTS OF CASES, HOSPITALIZATIONS, AND DEATHS

Data Provided by Department of Health and Mental Hygiene (DOHMH). Accessible here.

TOOLS





ANALYSIS

Data cleaning and EDA

CLEANING THE DATA



EXCLUDE IRRELEVANT COLUMNS

Like exits and others



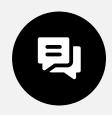
REMOVE DUPLICATES

Reduce the data size and make the calculations faster



GET DAILY ENTRIES

Entries are cumulative, we need to calculate the daily entries per one turnstile

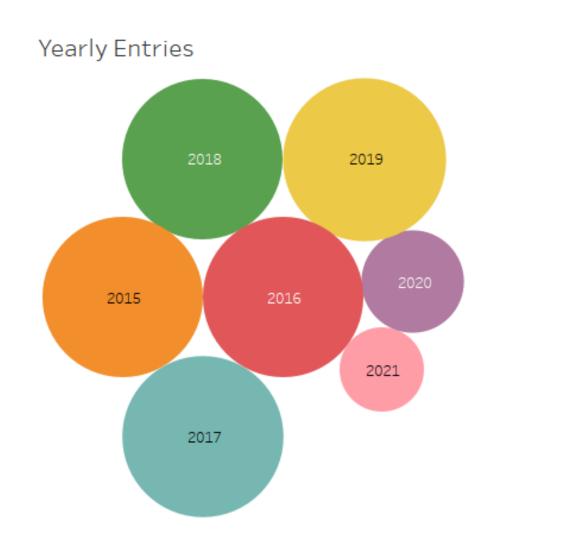


SORT THE DATA BY DATE

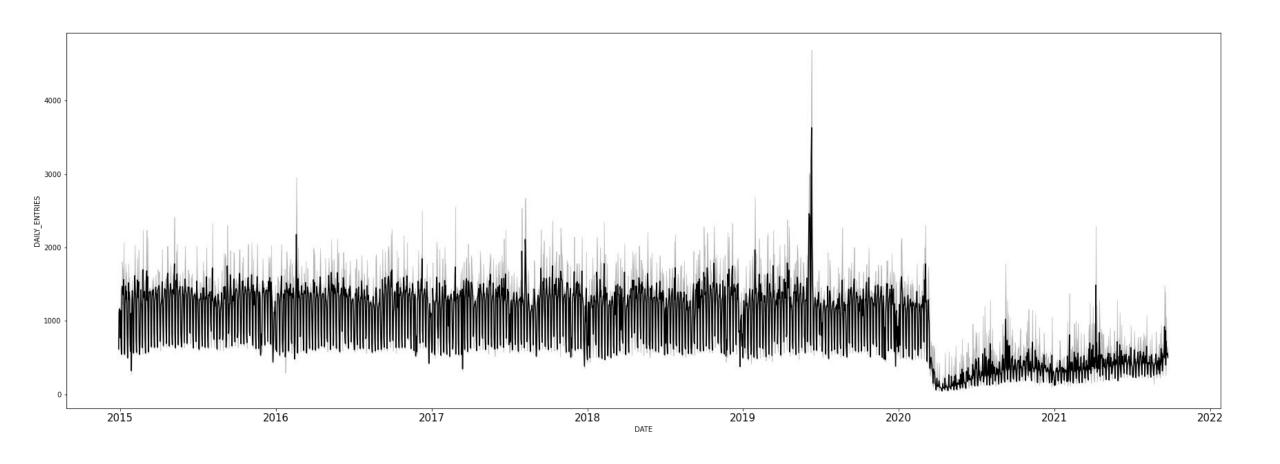
To notice yearly changes

TOTAL ENTRIES PER YEAR

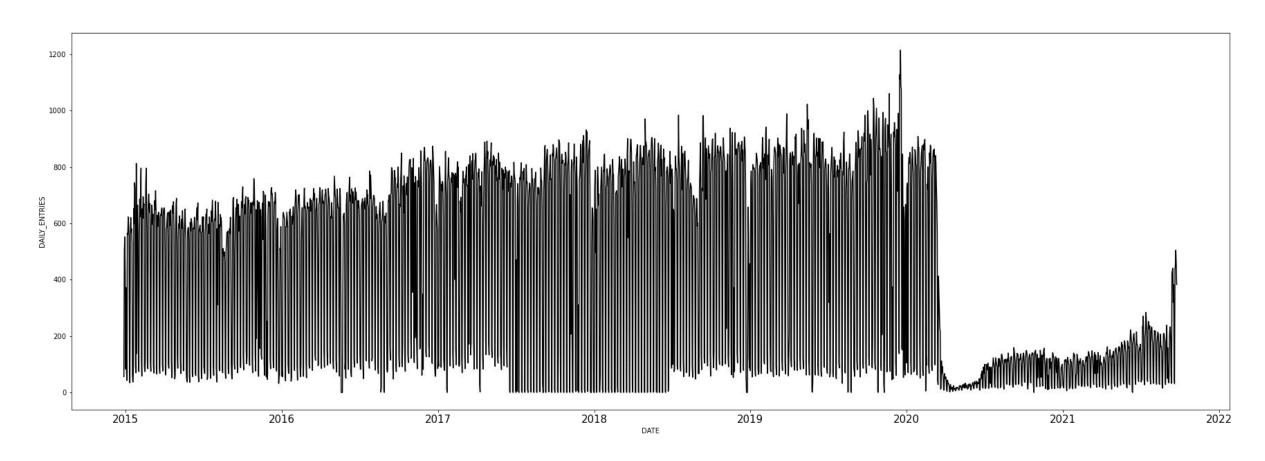
Year of Date



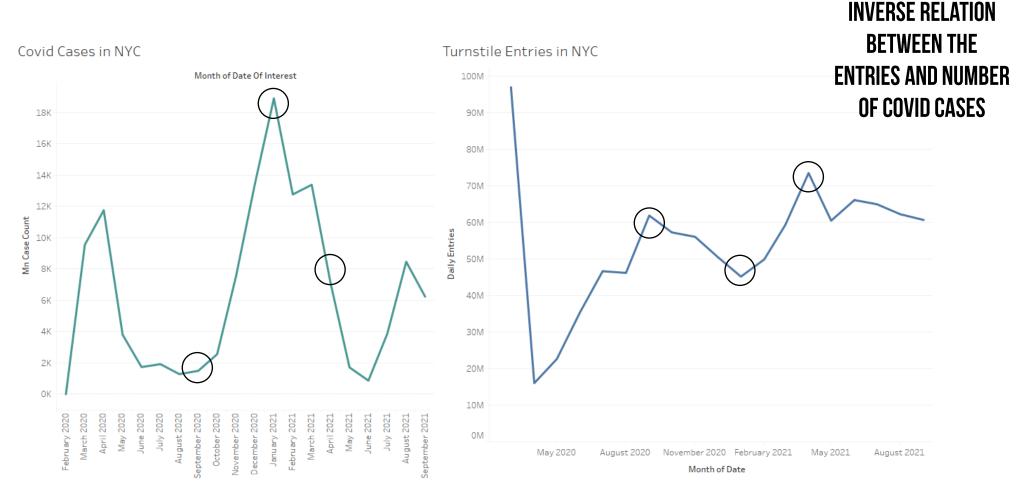
YEARLY ENTRIES



YEARLY ENTRIES FOR ONE TURNSTILE



COVID-19 CASES AND TURNSTILE ENTRIES



Source: Department of Health and Mental Hygiene (DOHMH)

This dashboard is publicly accessible <u>here</u>.

CONCLUSION



THE DATA SUGGESTS COVID-19 PANDEMIC HAS SEVERELY AFFECTED THE METRO TRANSPORTATION IN NY CITY.

THANKS!

Any questions?