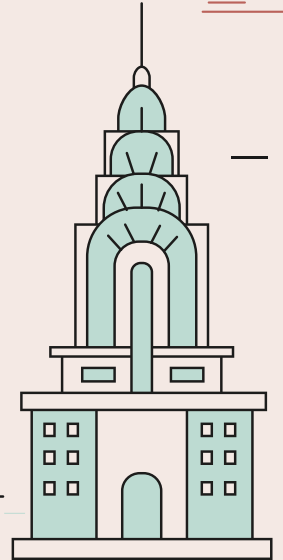
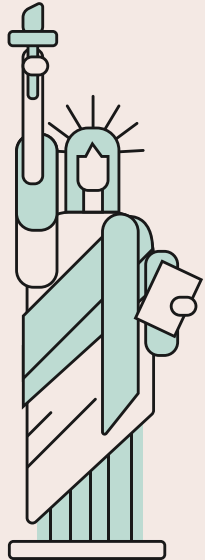




NEW YORK

Subway analysis

By: Gleb Radchenko
Injung Ahn
Logan Marett
Nina Mamaeva

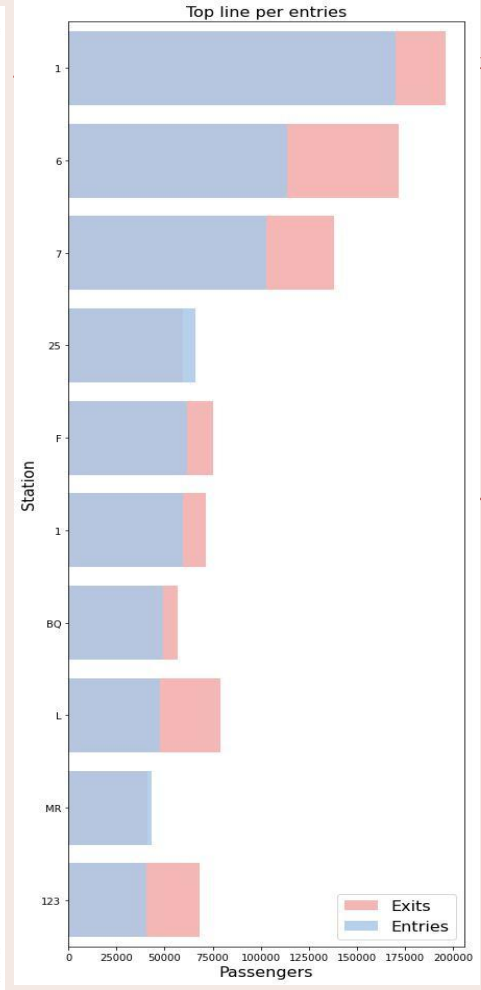
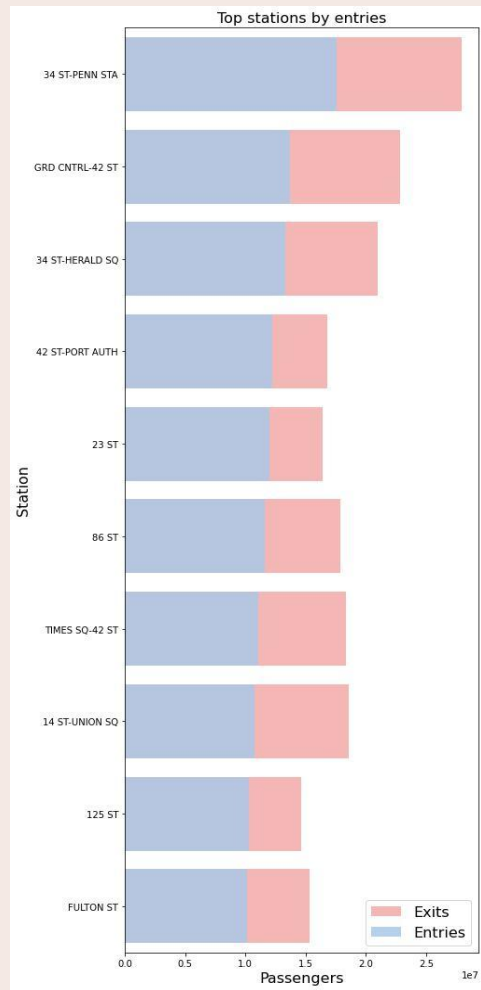


Most popular subway stations and lines

NYC Subway Stations can handle up to 28 millions people annually

It is one of the oldest subway systems on the planet

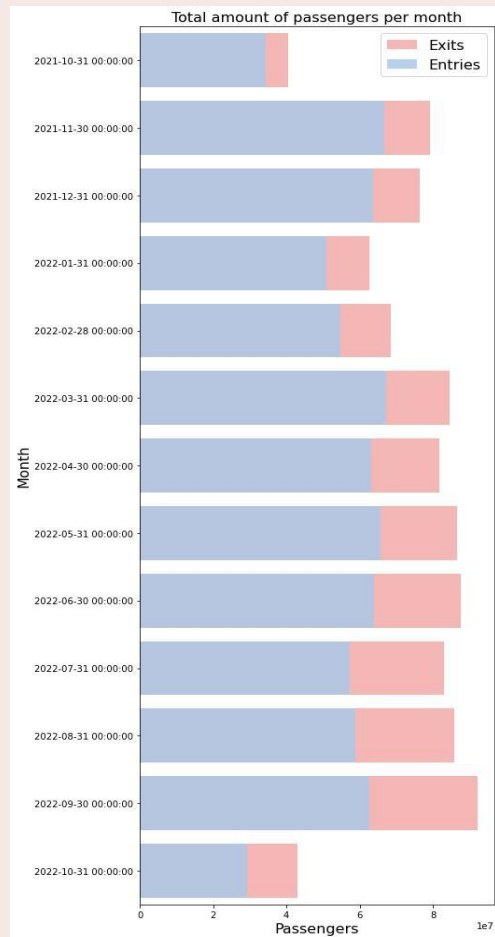
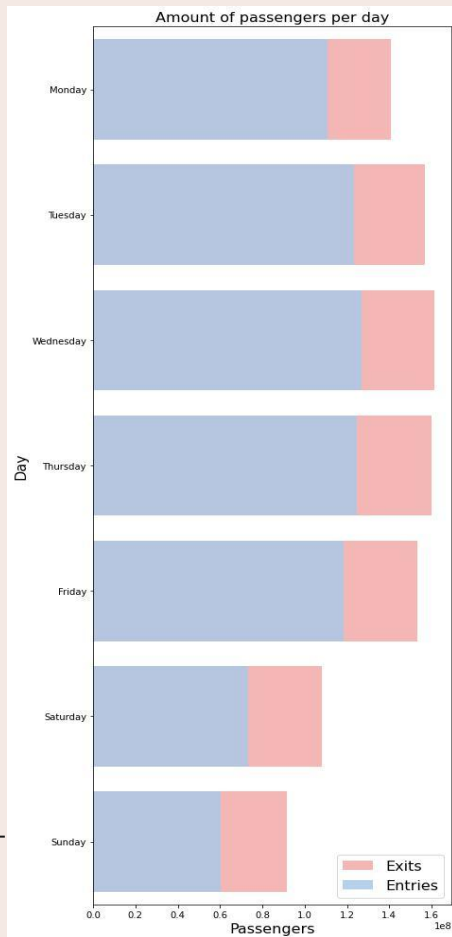
The 23 lines make their way through NYC's 468 stations 24 hours a day, 7 days a week, 365 days a year.



Weekly and monthly load

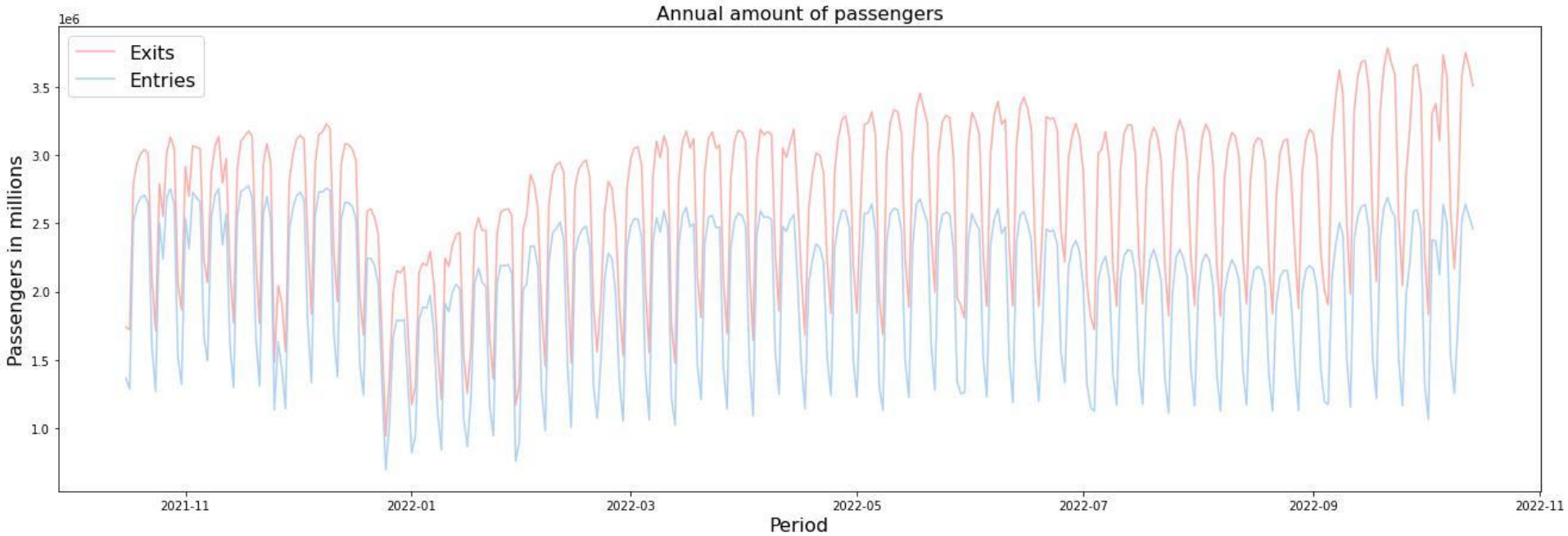
Most busy days
Wednesday
Thursday

Least busy
Sunday

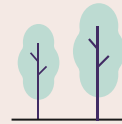


Top month is
September.
And the least
loaded is
October

Yearly load of the whole subway system



+



○



738 115 615



Total amount of entries per year:



971 819 557





Total amount of exits per year:



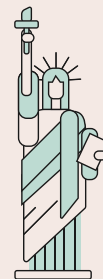
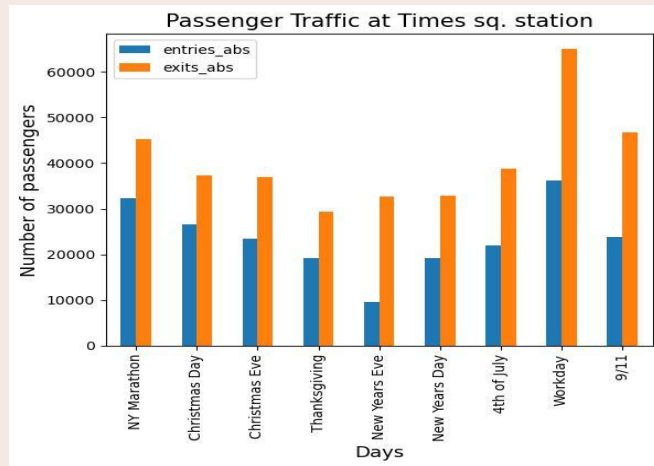
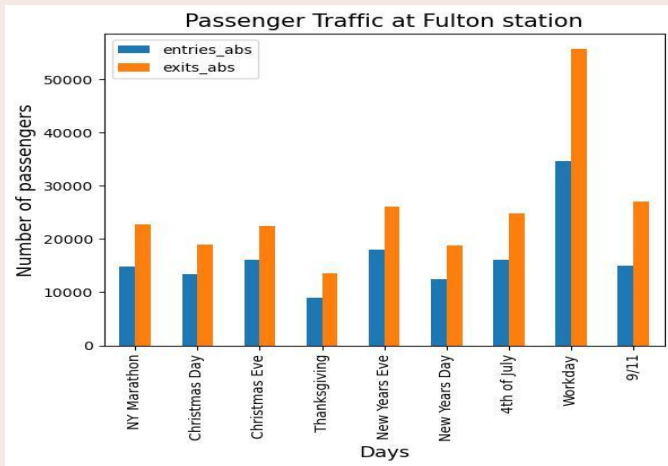
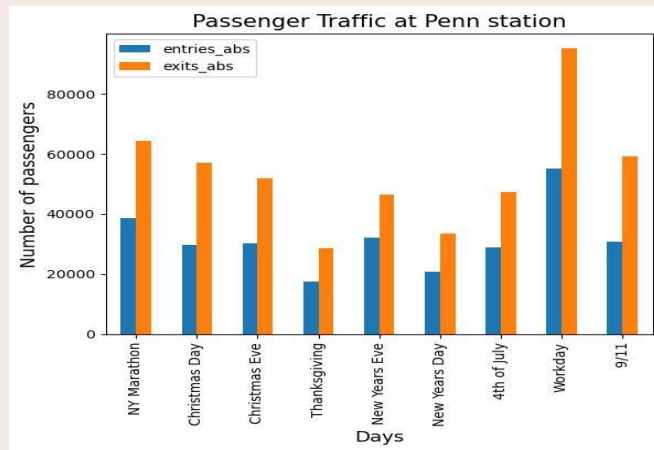
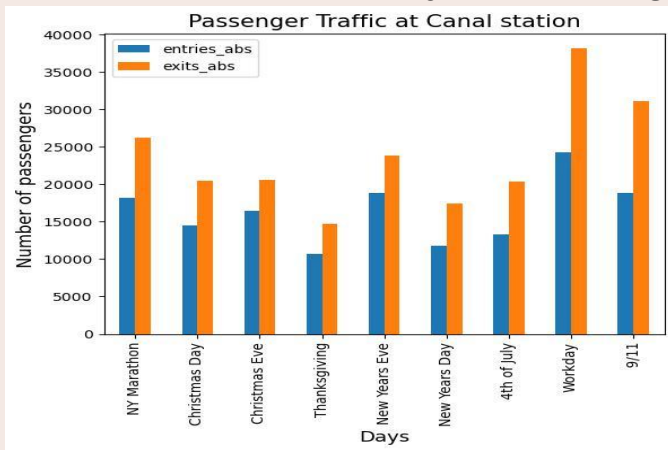
233 703 942



Difference:



Traffic flow for holidays and major events:

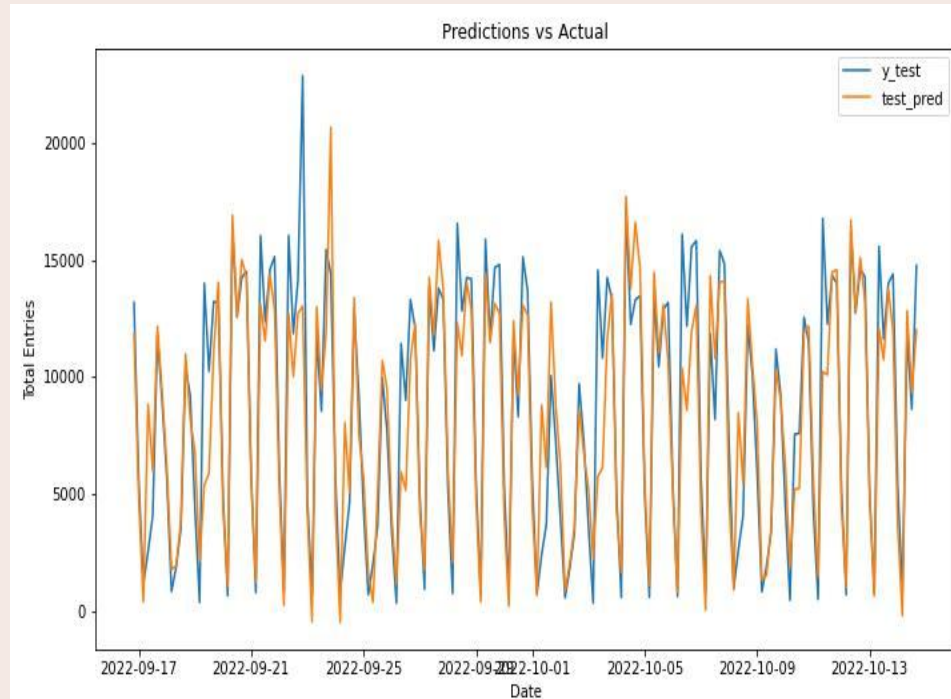
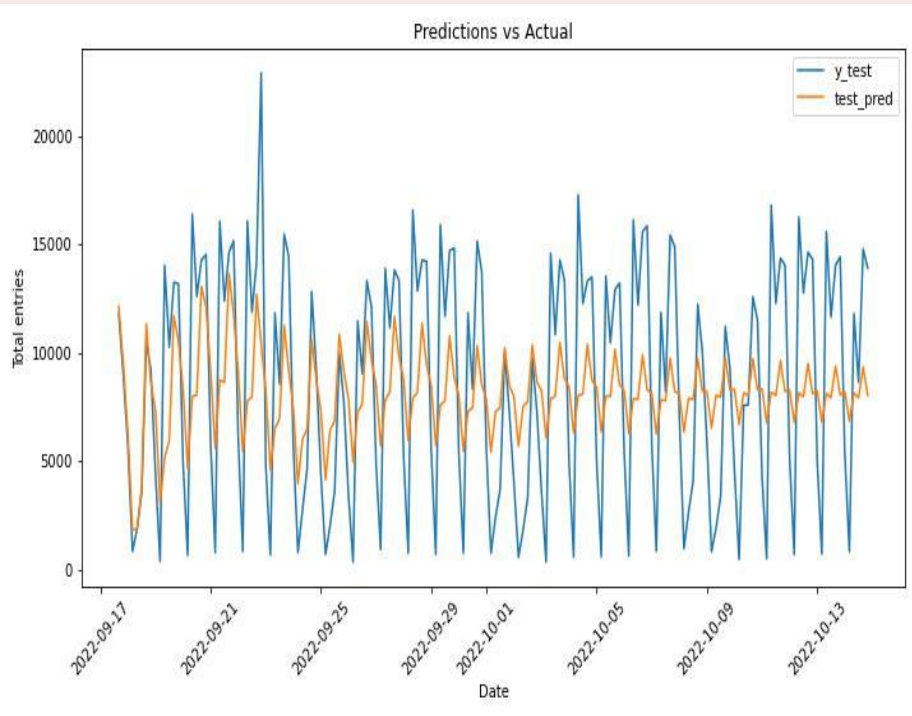


Model Metrics

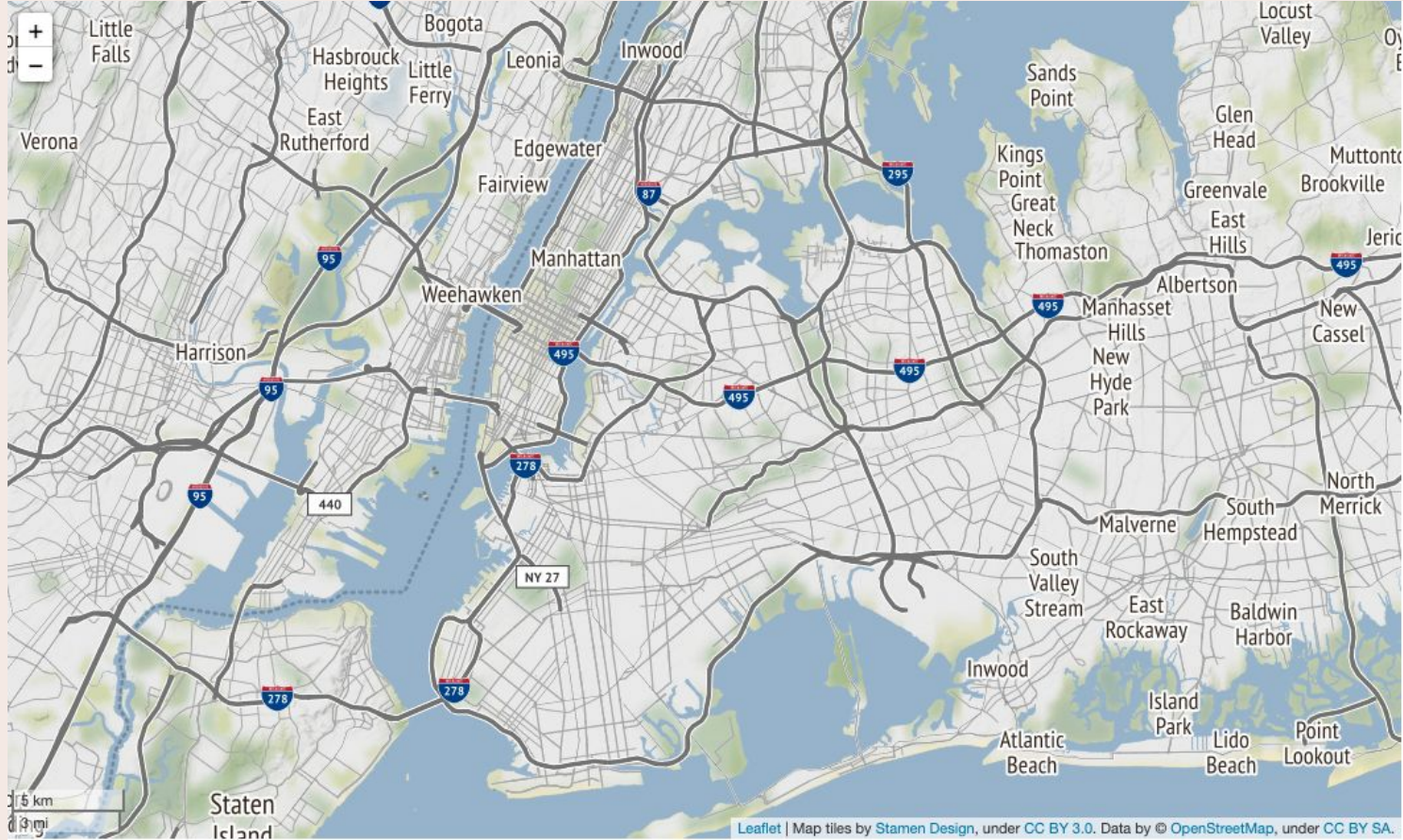
Baseline Metrics	Entries	Exits	Traffic
MAPE	248%	244%	242%
RMSE	5478 entries	11750 exits	16567

AR Metrics	Rolling Entries	Entries	Exits	Traffic
MAPE	41.9%	169.18%	64.29%	64.7%
RMSE	2356 entries	4507 entries	6337 exits	9190 exits + entries

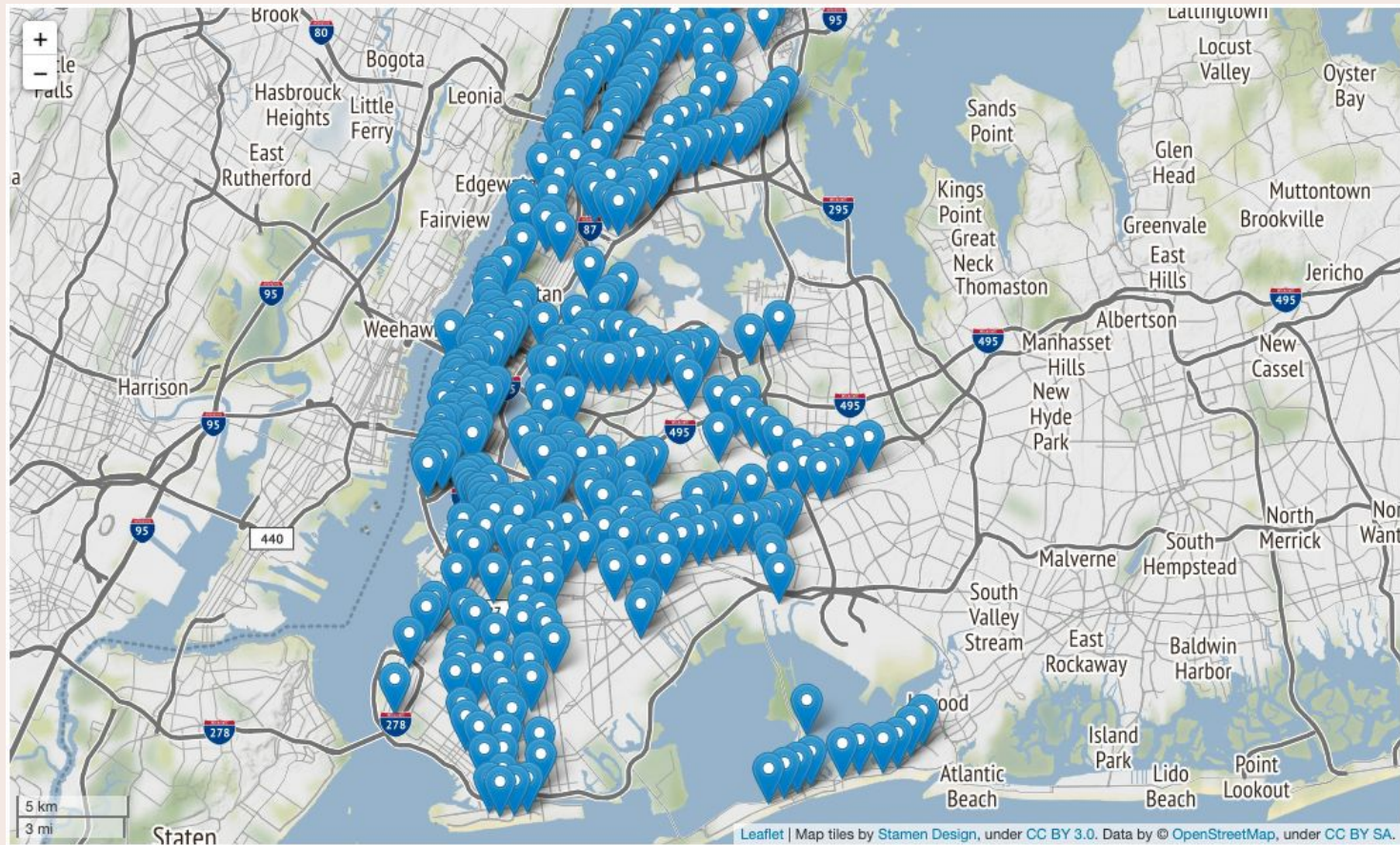
Base AR Model vs Rolling AR Model



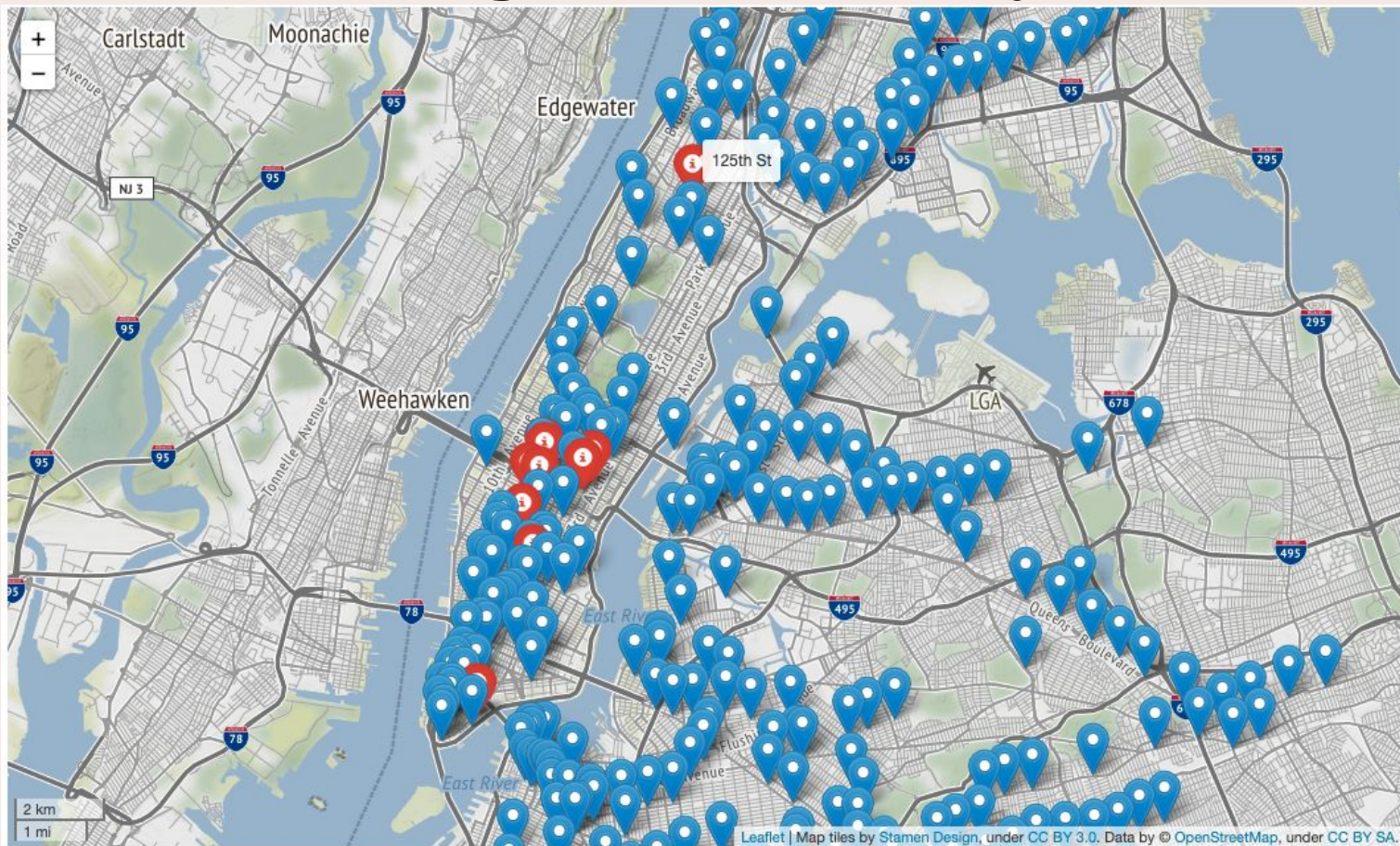
Visualizing the NYC Subway Stations



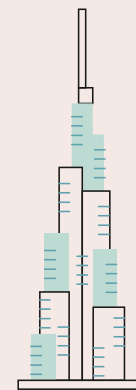
Visualizing the NYC Subway Stations



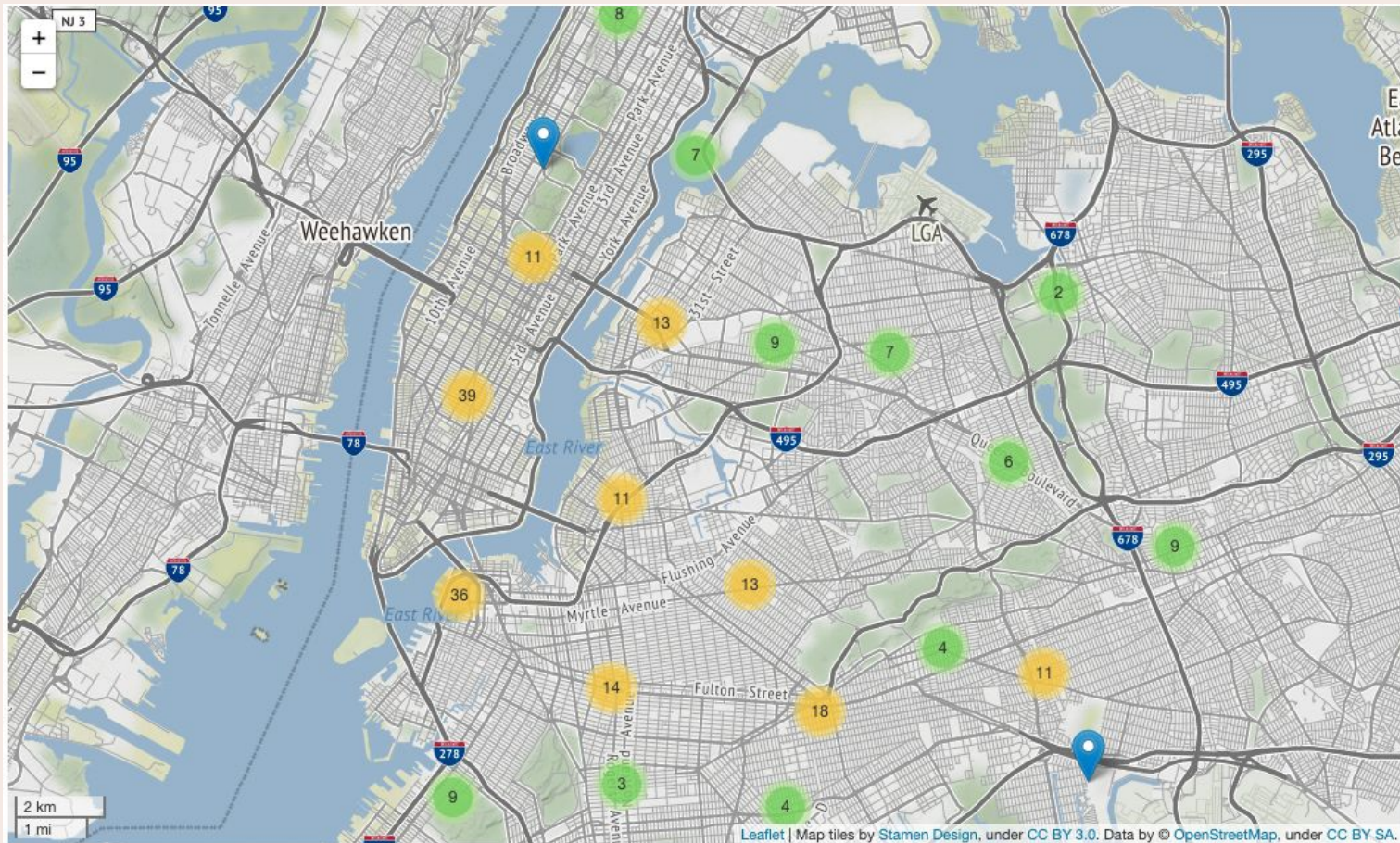
Visualizing the NYC Subway Stations



ns



Visualizing the NYC Subway Stations



I ♥ NY


To the app!





THANKS!

Does anyone have any questions?



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