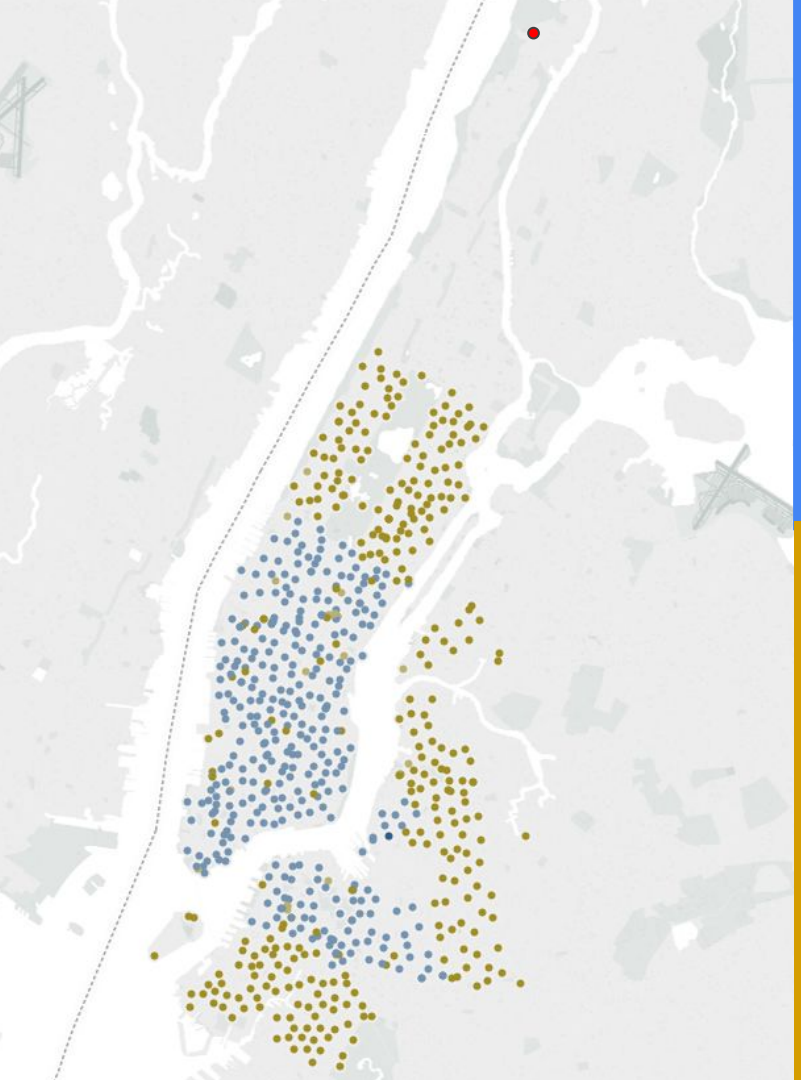
Lorena De La Parra Landa

est. 2013

36,902,025

~700 stations

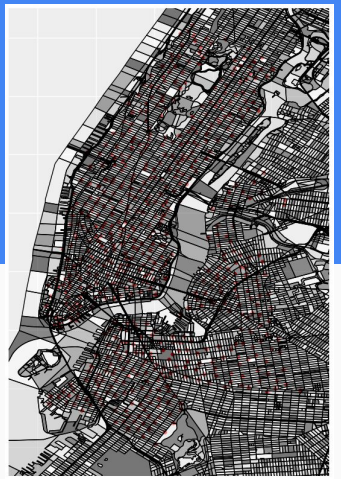


Will I have a bike station on my block?

Can I predict if a block has a station?

Data

Block Features

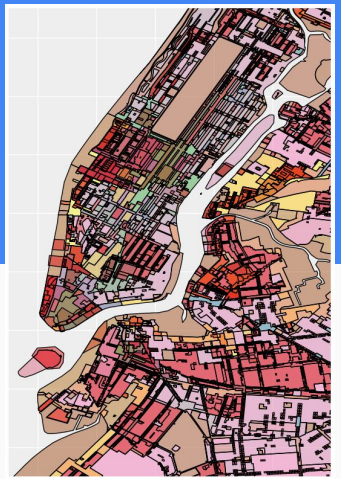


Stations

Location, age, distance, monthly average, and total counts on the three closest Citibike stations.

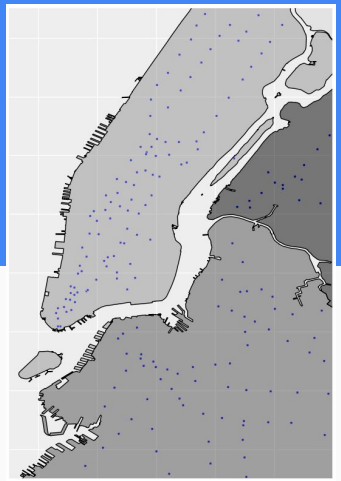
Zipcodes

Block **zipcode, density, housing units, and income.**



Districts/Areas

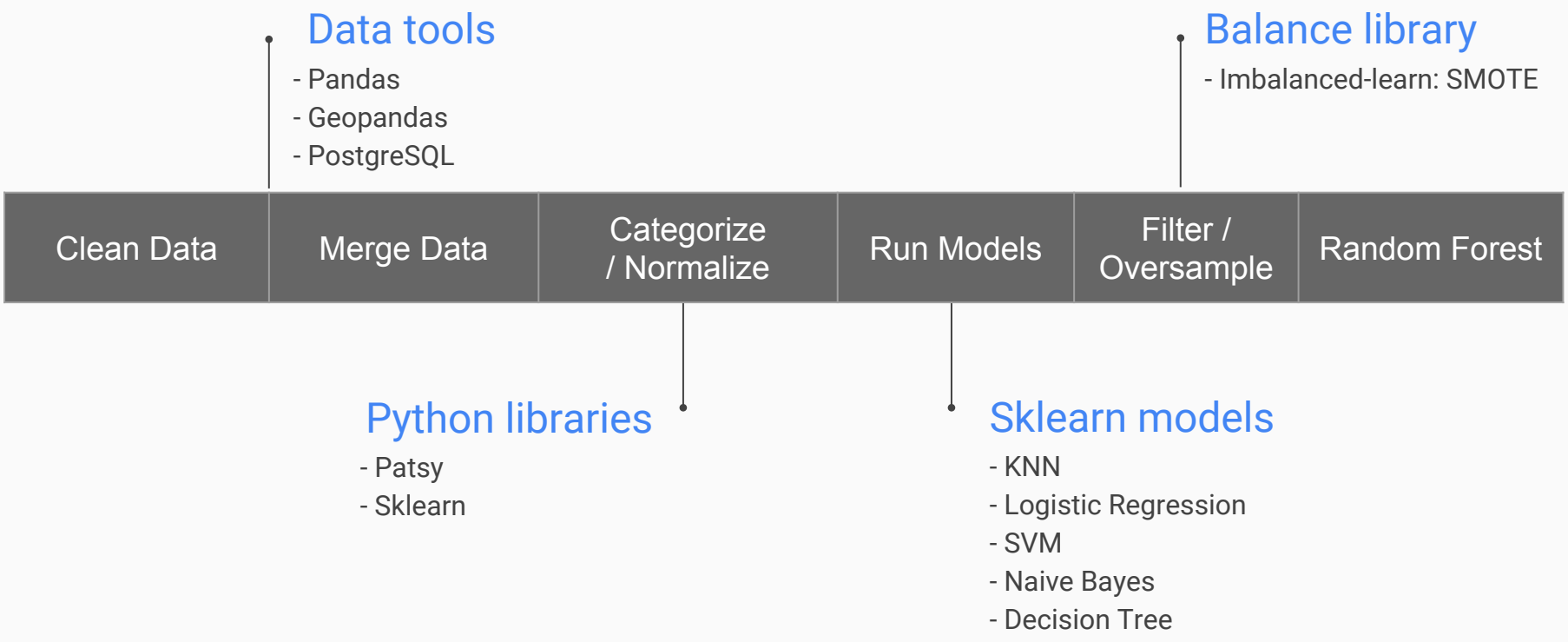
Block (assembly, electoral, school, fire...) **districts, and commercial zone type.**



MTA

Distance to the three closest MTA stations.

Project Process



Model Scores

Manhattan

Blocks: 8,117
Stations: 435 (~5%)

First models

Accuracy: 0.95
Precision: 0.80
Recall: 0.09

Final model

Accuracy: 0.93
Precision: 0.42
Recall: 0.51

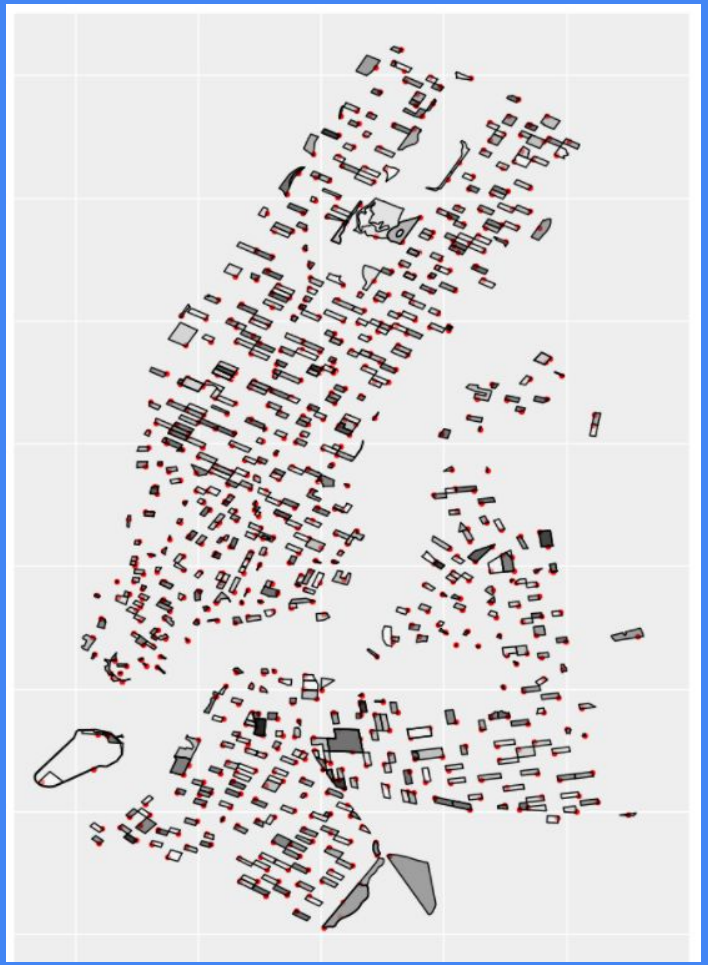
Important Features

- Block size (shape area, length)
- Distance to Citibike stations
- Bike/dock demand of closest stations
- Latitude
- Distance to MTA stations

Future Work

- More data (extra features, expansion...)

- Qualitative data

- Real estate application

Thank you!