



NY top zipcodes Time Series





Hi there! I'm a software engineer based in NY and working for the UN, and an aspiring **data scientist** at Flatiron Academy

Barto Molina, Flatiron DS, April 2019 cohort



| the problem

- ① increasing relocations
- ① renting vs. buying
- ① optimize commuting time / ROI



| the project



NY, NJ, CT - UNHQ



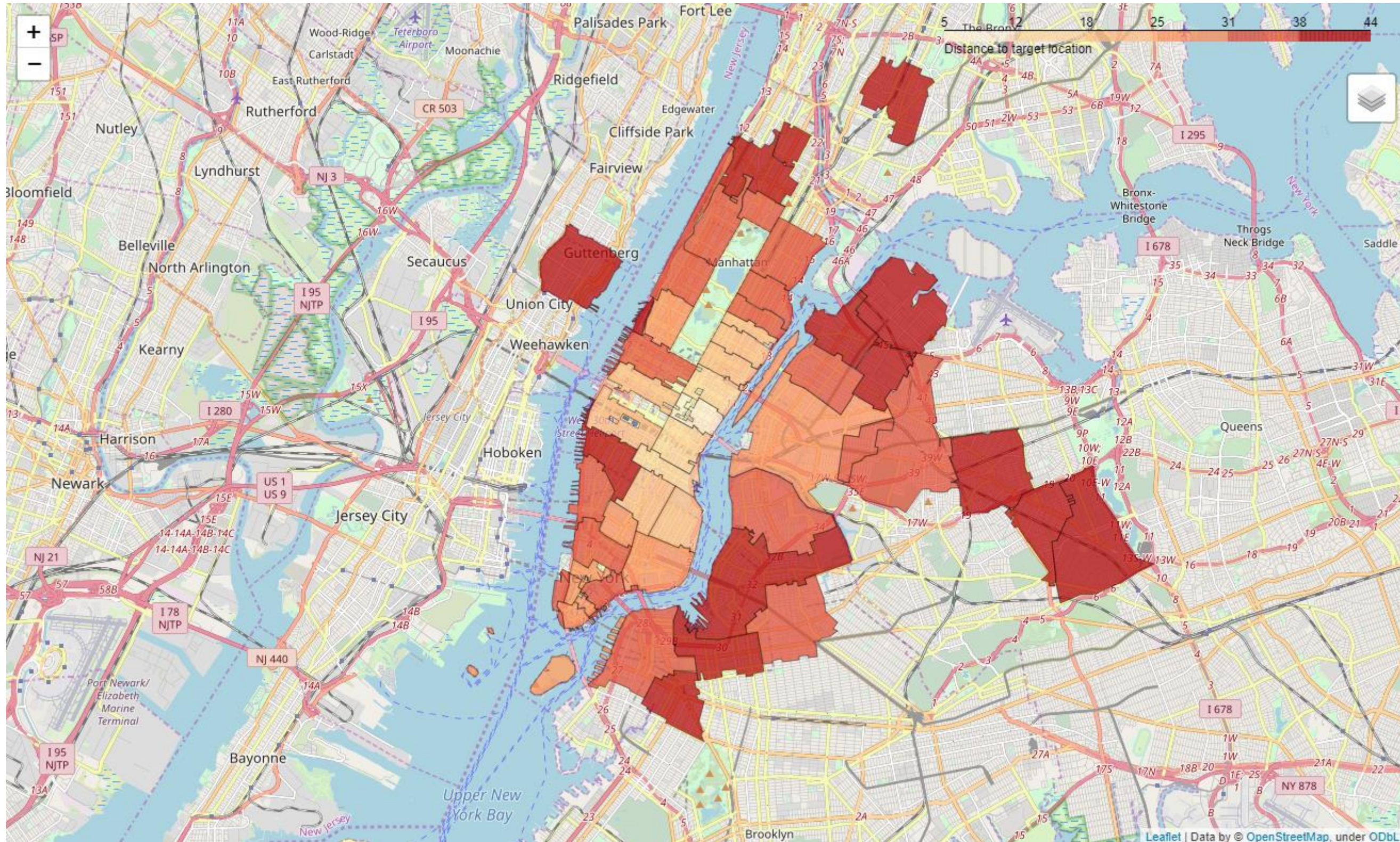
commuting < 45 minutes



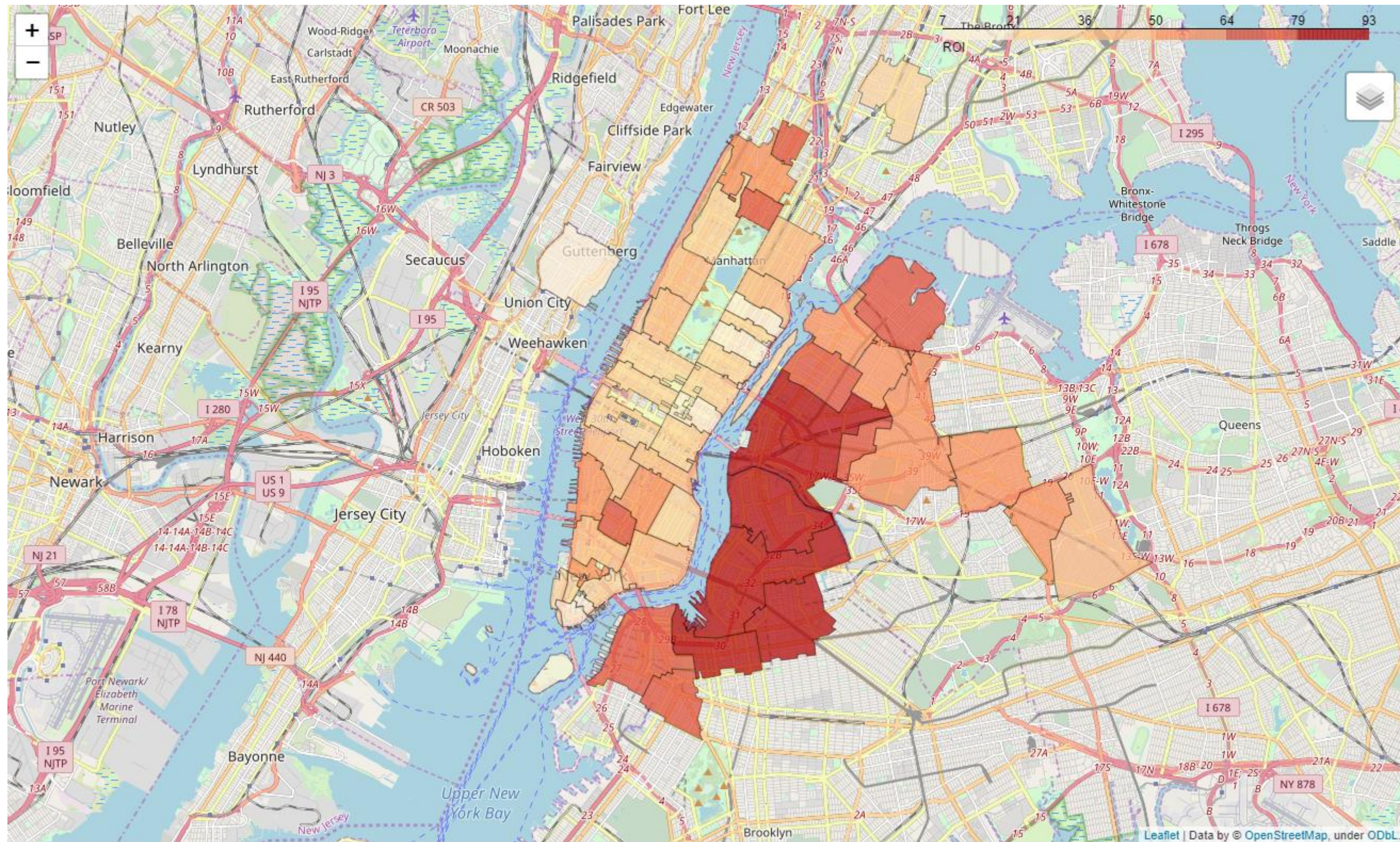
10-year ROI



top zipcodes commuting distance

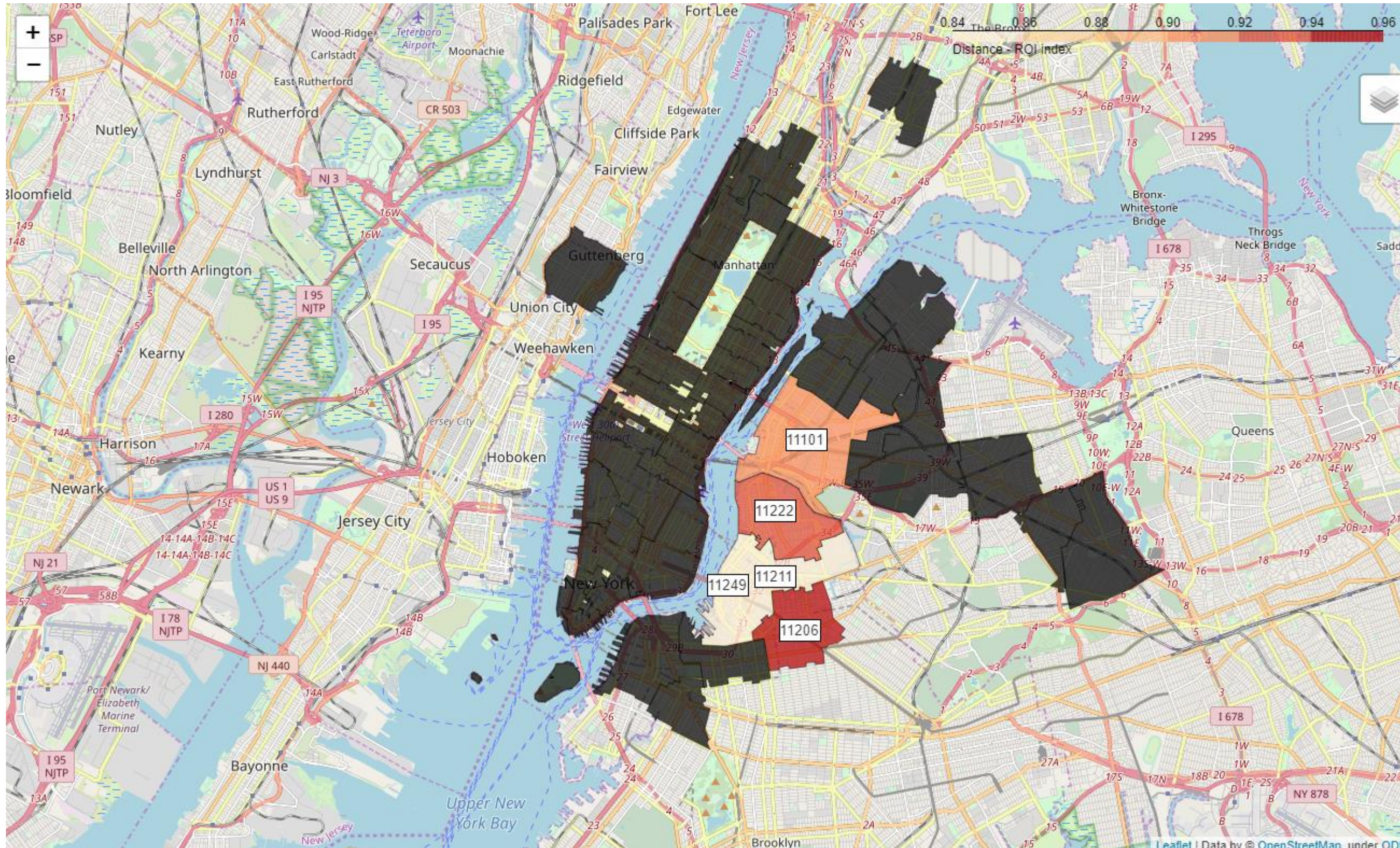


top zipcodes 10-year ROI



top zipcodes

distance – ROI Index (DRI)



Top 5

Astoria

11101: 26m – 87% (91)

Brooklyn

11206: 37m – 93% (96)

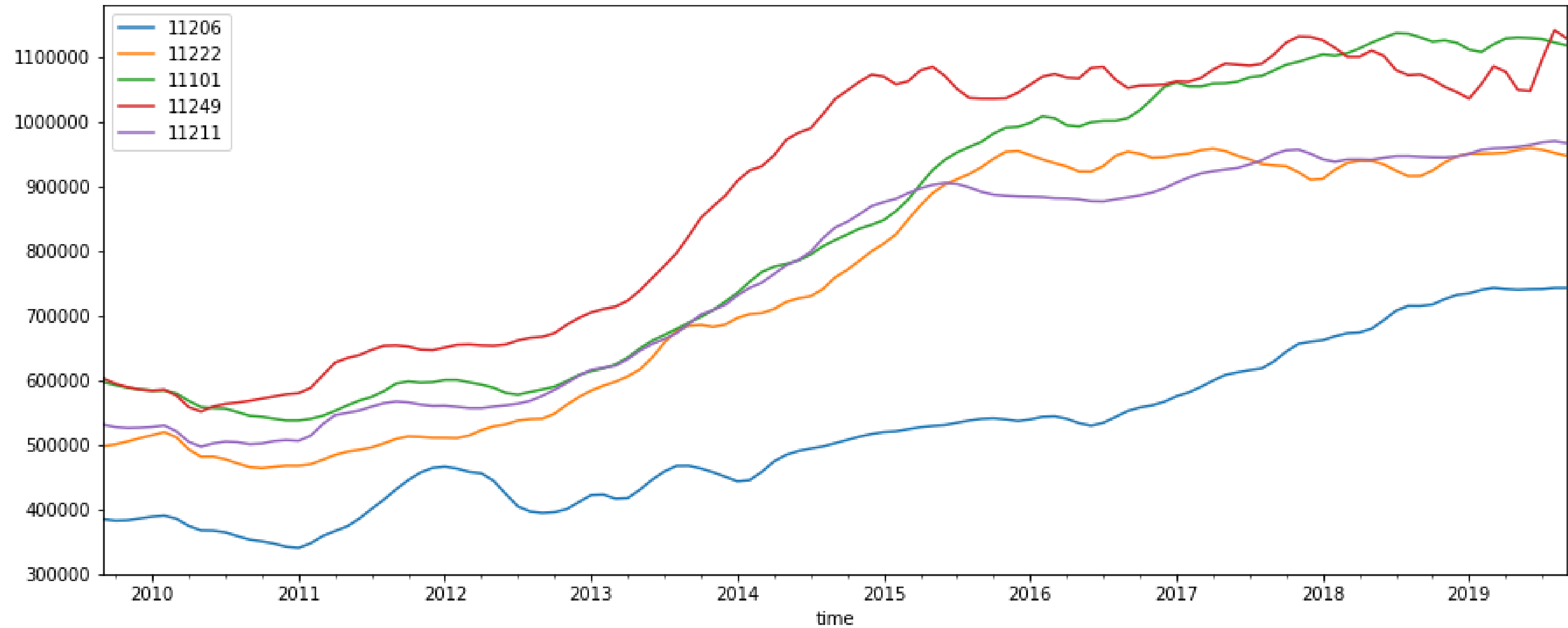
11222: 36m – 91% (94)

11211: 41m – 82% (84)

11249: 40m – 87% (86)

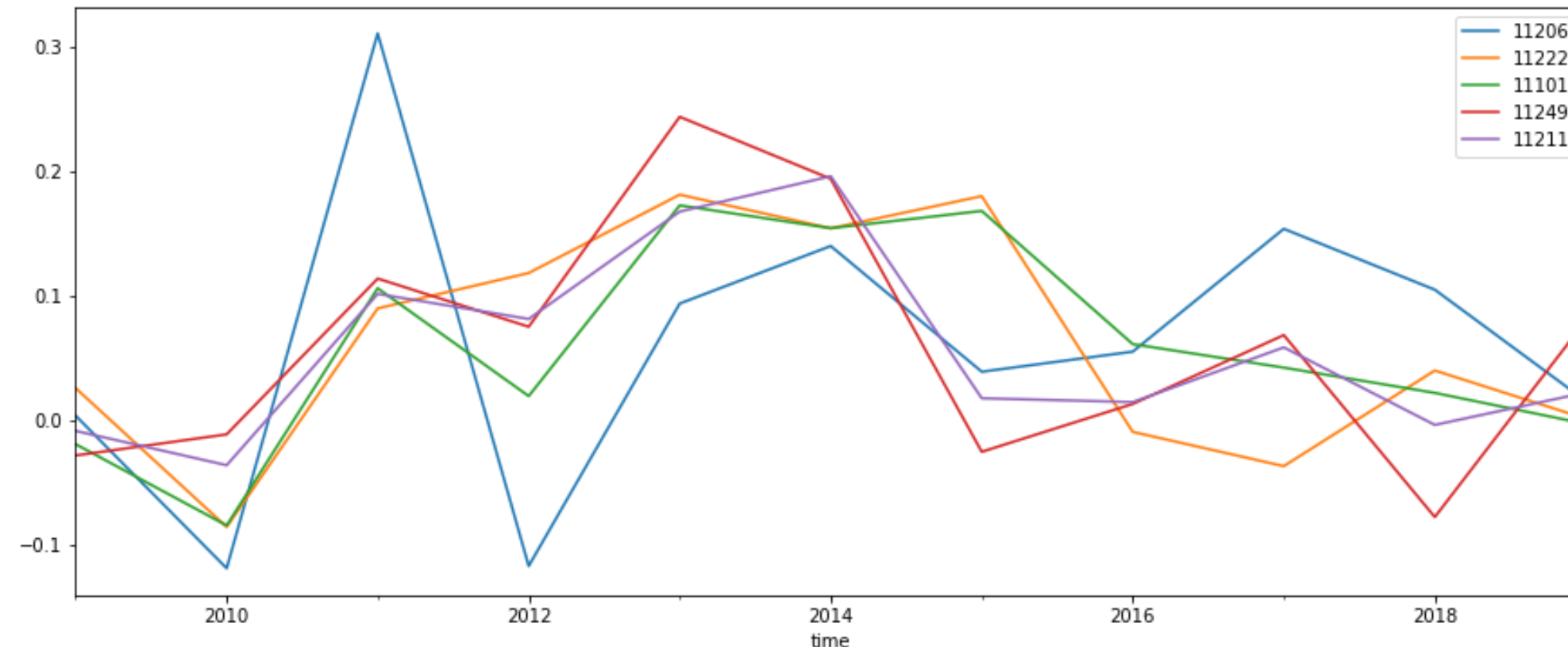
analysis

monthly price



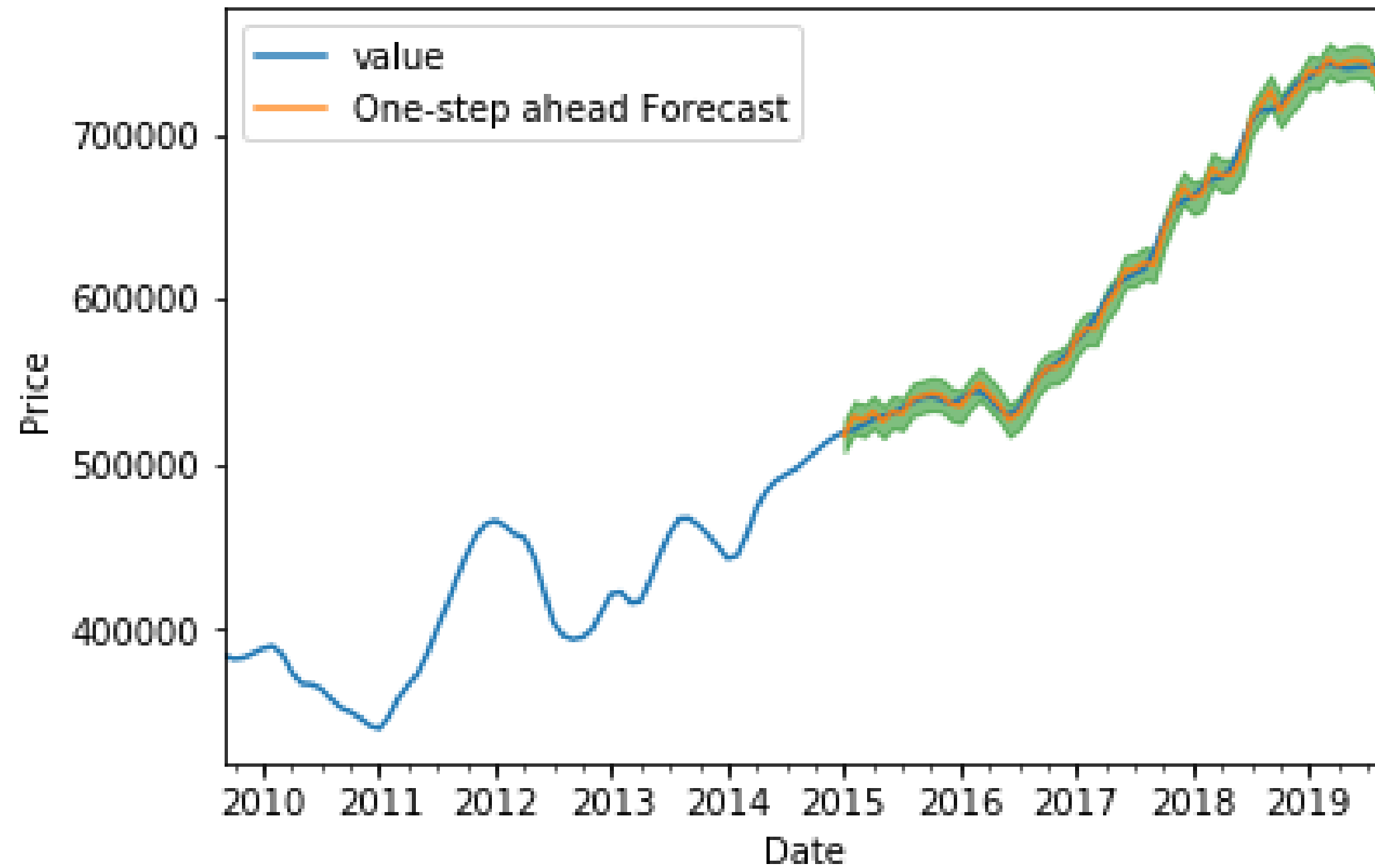
analysis

yearly / monthly ROI



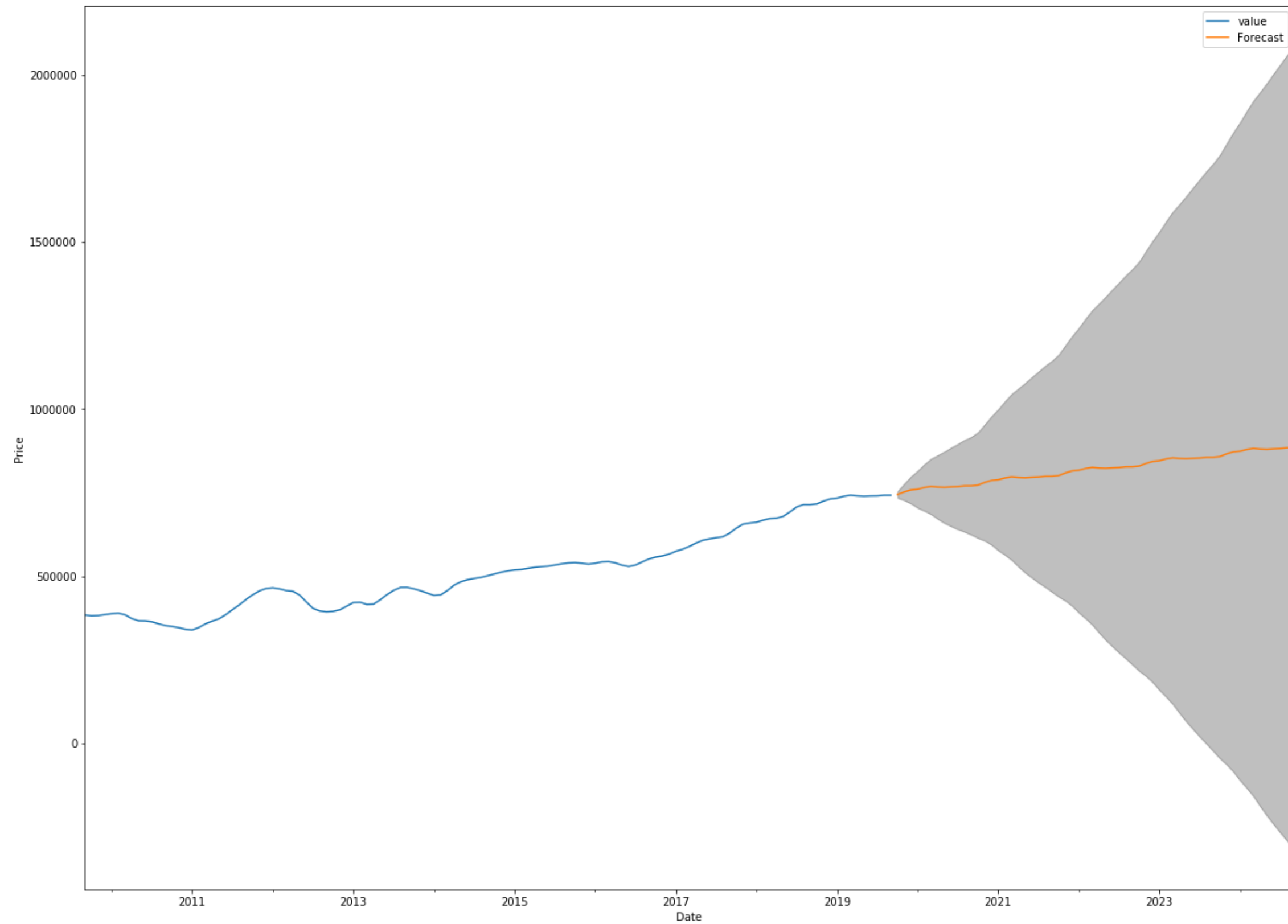
11206

fitting model



11206

5-year prediction SARIMA



recommendations

future work



wide confident interval



additional models required



modelling additional zipcodes



「thank you.」