Predicting Housing Litigation

Maddy O'Brien Jones

Finding an apartment is hard

FINDING AN APARTMENT IN NYC IS SO DIFFICULT THAT PEOPLE ARE CLAMORING TO LIVE IN THIS BAR BATHROOM

There are no apartments to rent in Manhattan

Why is it so hard to find apartment in NYC for a newcomer?



The Problem

- Prospective tenants want to avoid bad landlords and bad buildings
- Landlords want to prevent litigation



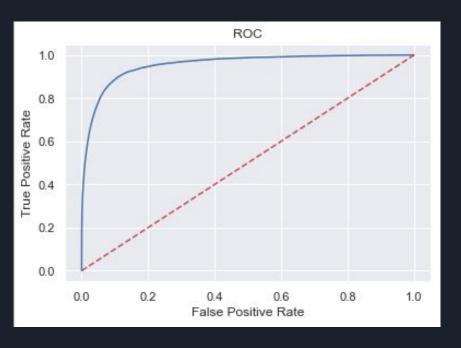


The Data

- Tenant litigations in NYC
- Building information
- Complaints
 - Department of Buildings
 - Department of Housing Preservation and Development
 - o 311
- Violations
 - Department of Buildings
 - Department of Housing Preservation and Development

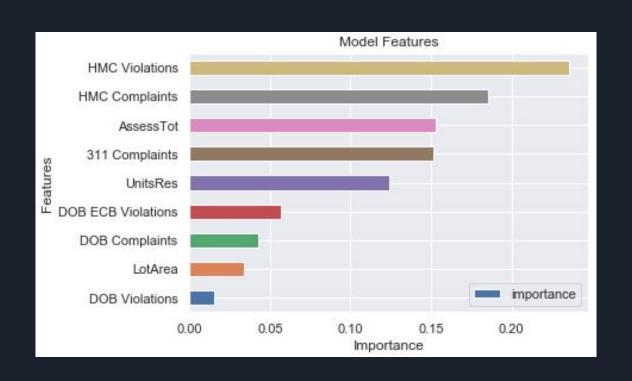
NYE OpenData

XGBoost Model



Precision	Recall	F1	AUC
.763	.502	.605	.746

Final Model - XGBoost



Making This Model Useful

