Chicago Food Establishments

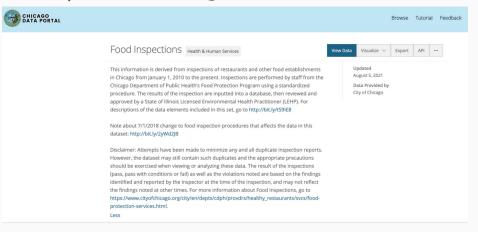
Diego Duque

Goal

Interpret Chicago food establishment inspections

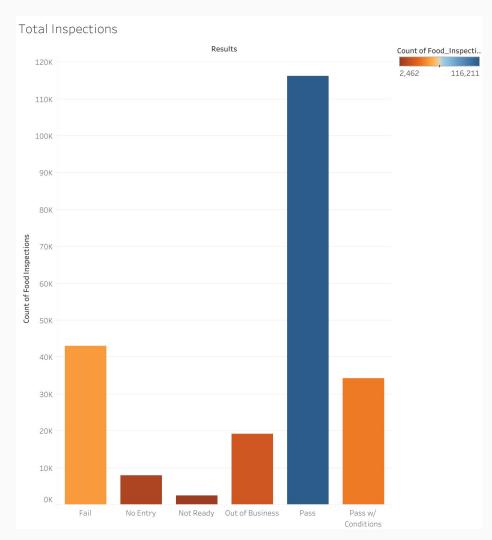
Data

City of Chicago



- 2010 2021 (updated daily)
- 17 features
- 224K inspections

Source: https://data.cityofchicago.org/Health-Human-Services/Food-Inspections/4ijn-s7e5



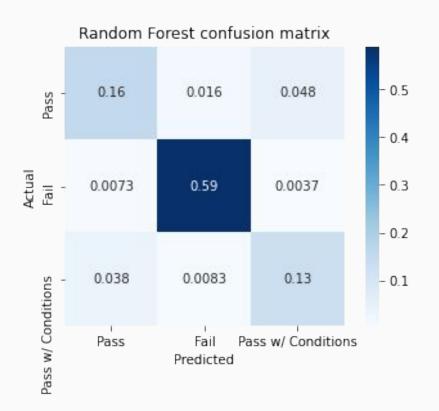
EDA

- Chart generated on Tableau
- Results of all inspections 2010 2021

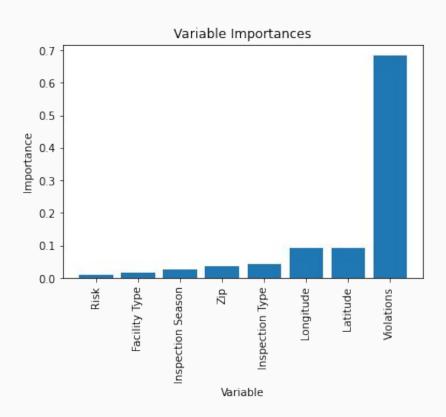
Results will be our target

- 1. Pass
- 2. Fail
- 3. Pass w/conditions

Random Forest



Random Forest

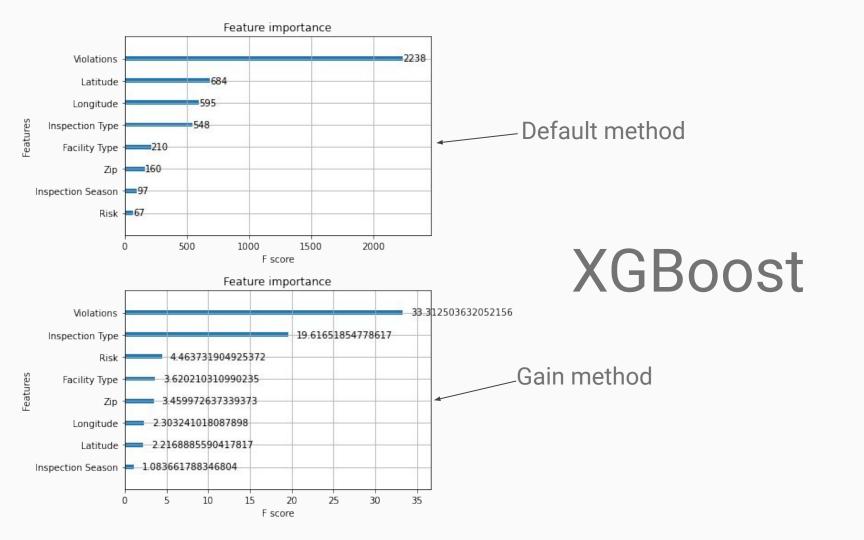


Random Forest

XGBoost

Linear Regression (benchmark)	0.6224
Random Forest (Benchmark)	0.5212
XGBoost (Validation)	0.5217
XGBoost (Test)	0.5097

XGBoost



Future work

- Combine with other dataset (311 complaints, weather)
- More tune on Random Forest



Thanks!

Diego Duque



Remember to get vaccinated!