NYC Airbnb Quality Prediction

Gabriel Bond



Why?



Why?

Pre-rate new listings



Why?

Pre-rate new listings

Assist homeowners in optimizing features



Data

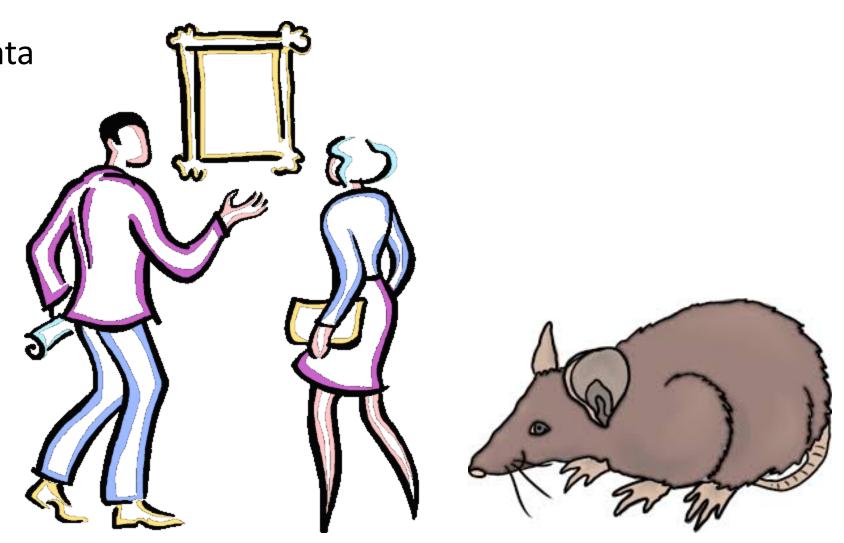
Data

Airbnb NYC listing data

Data

Airbnb NYC listing data

NYC open data



Binary classification (High = 9 or 10, Low < 9)

Binary classification (High = 9 or 10, Low < 9)

Random Forest Model

Binary classification (High = 9 or 10, Low < 9)

Random Forest Model

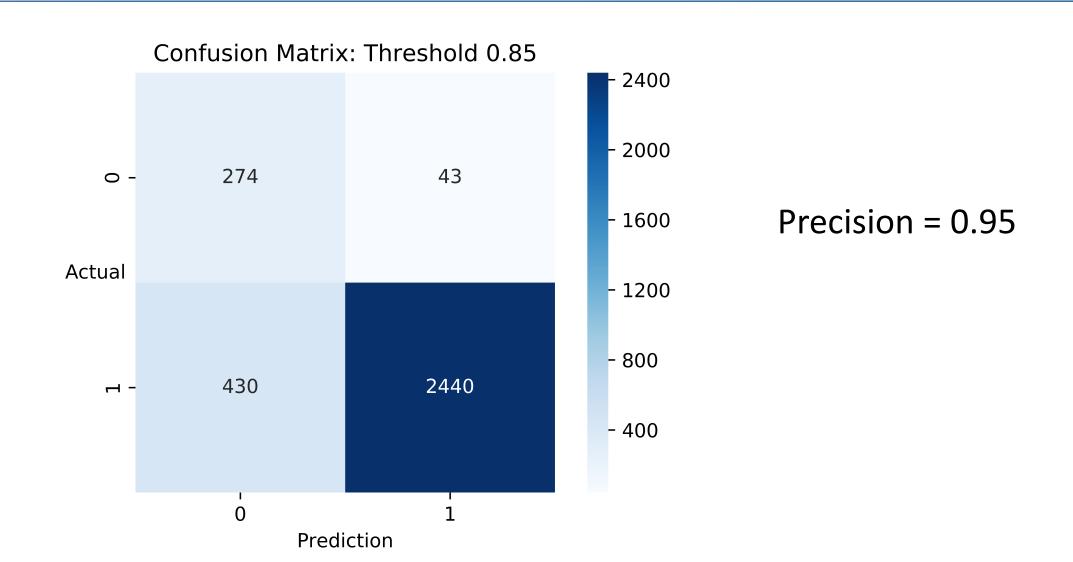
- Handles diverse data

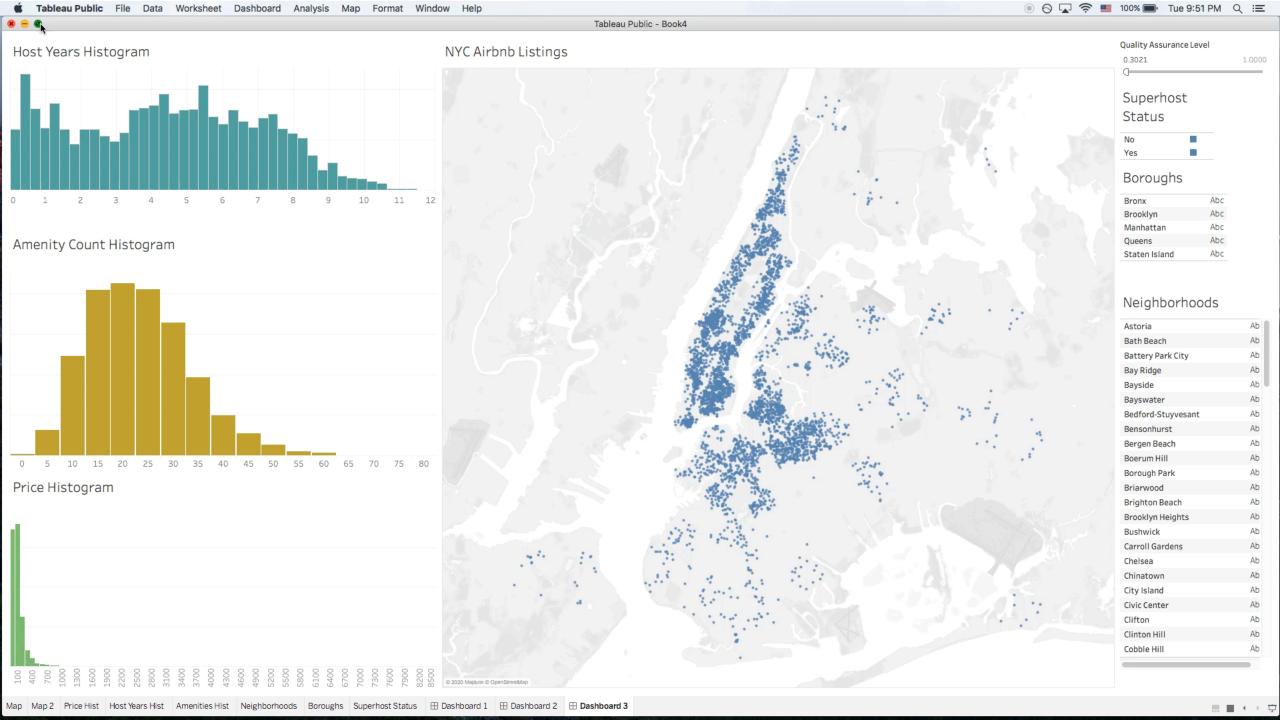
Binary classification (High = 9 or 10, Low < 9)

Random Forest Model

- Handles diverse data
- Relative feature importance

Results





Help Airbnb determine how to recommend new listings

Help Airbnb determine how to recommend new listings

Help homeowners craft listings to get higher ratings

Help Airbnb determine how to recommend new listings

Help homeowners craft listings to get higher ratings

Groundwork for more complex models

Thank You!