

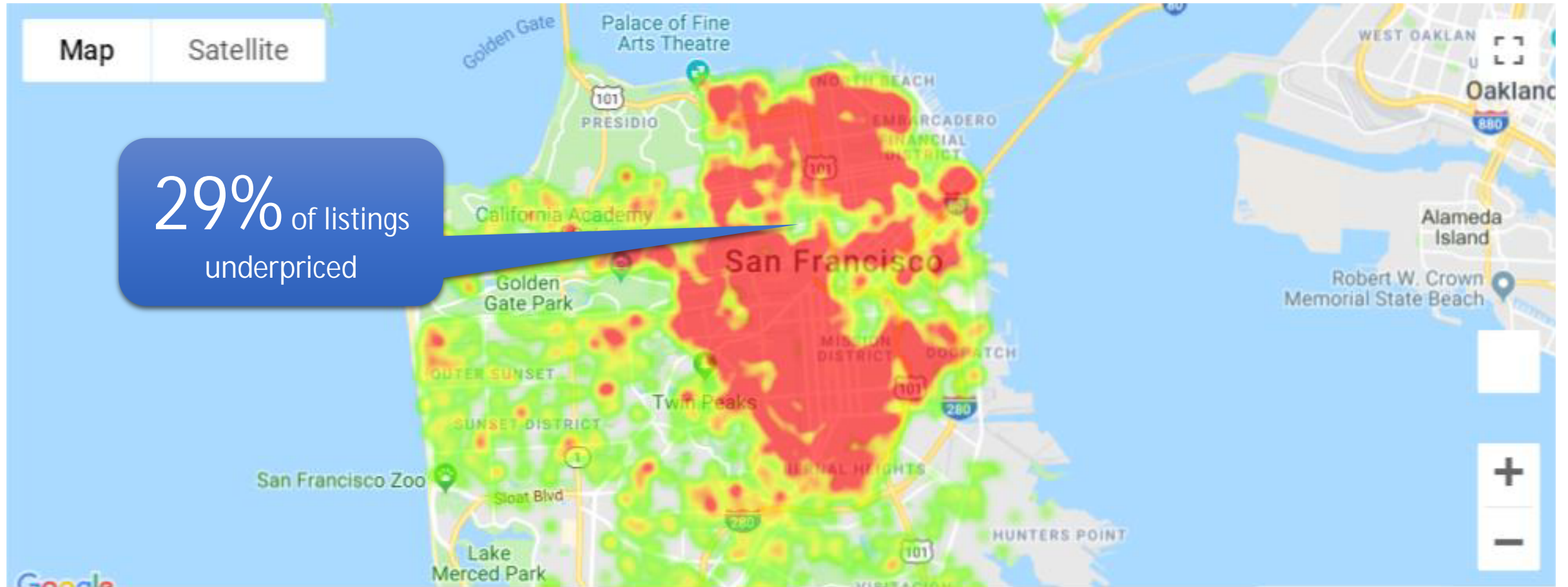


Hosts are unaided by Airbnb to price their properties, while similar properties in an area increase competition for hosts to set a competitive price to attract guests.

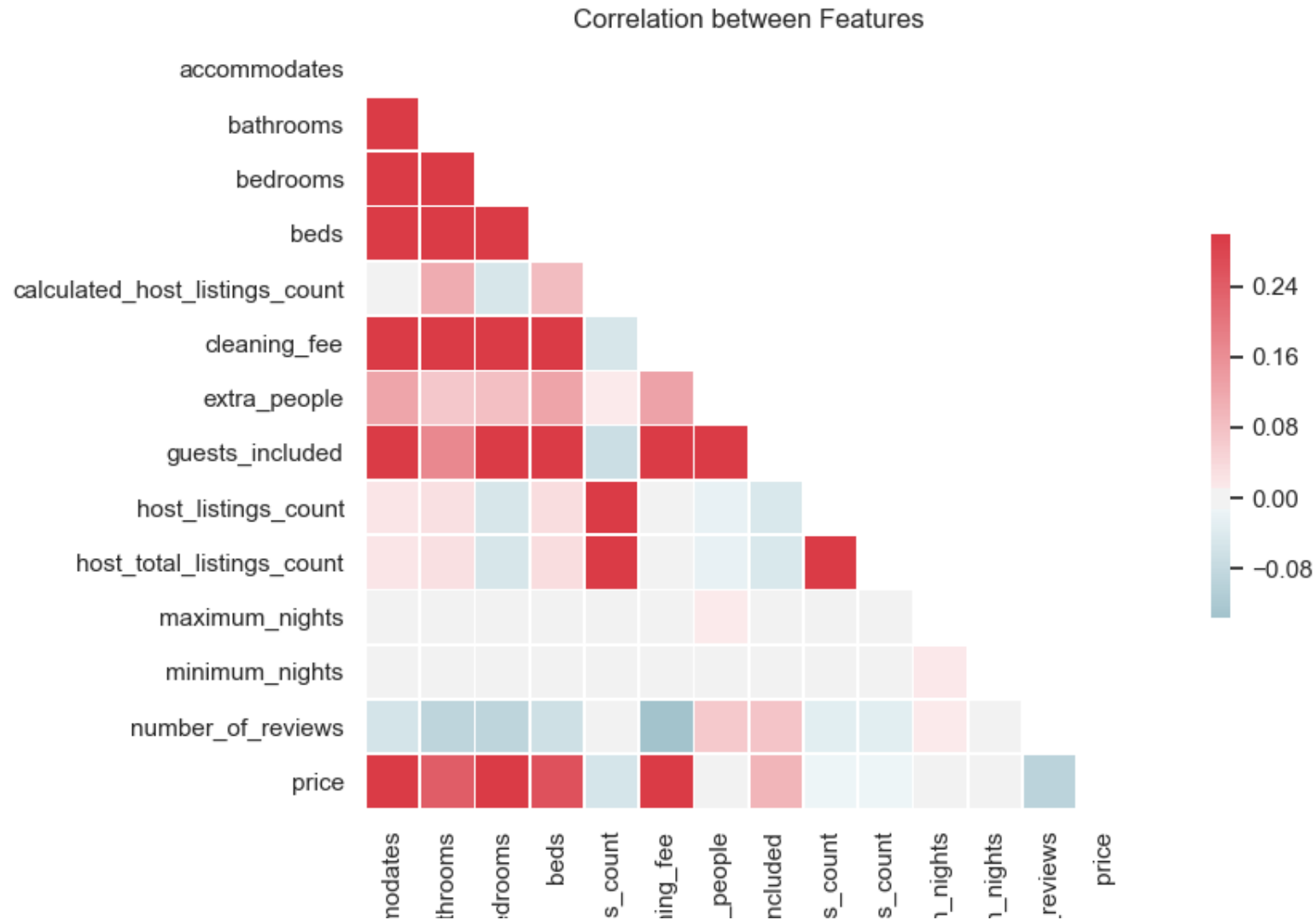
Dataset Characteristics

- Geography – Single city – San Francisco, CA
- Size – Original dataset – 3GB
 - Cleaned dataset – 1 GB
- Details – Listings Characteristics, Reviews and Price
- Source – Open Source for 50+ cities around the globe

San Francisco Dataset



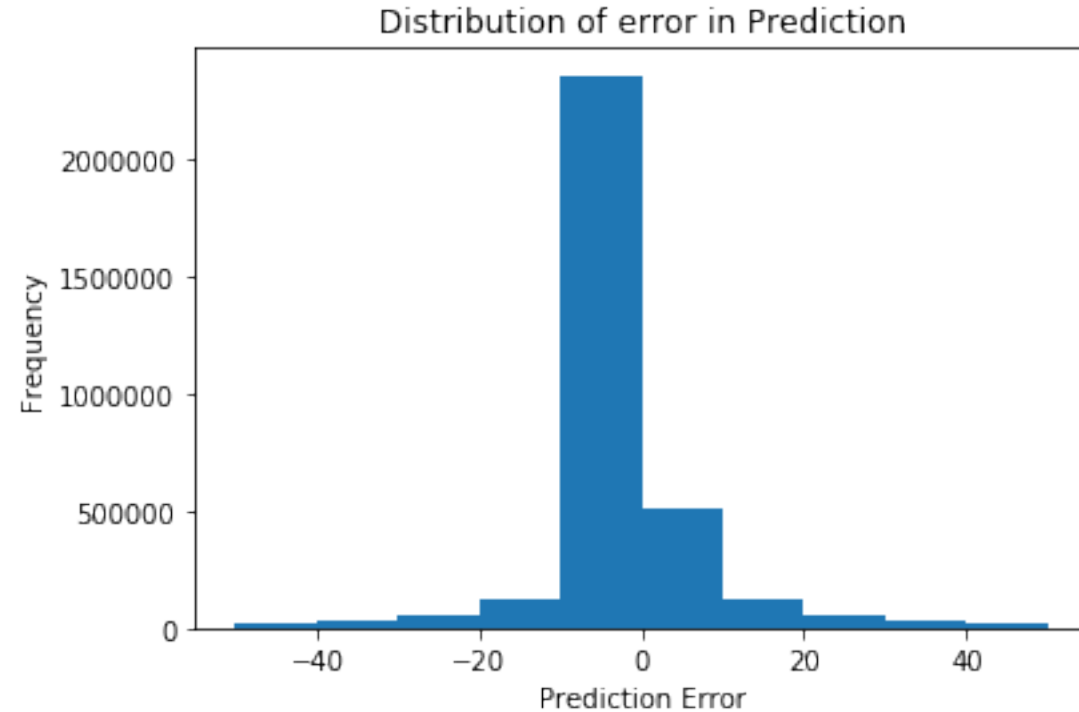
Predictors Correlation Matrix



Prediction Error

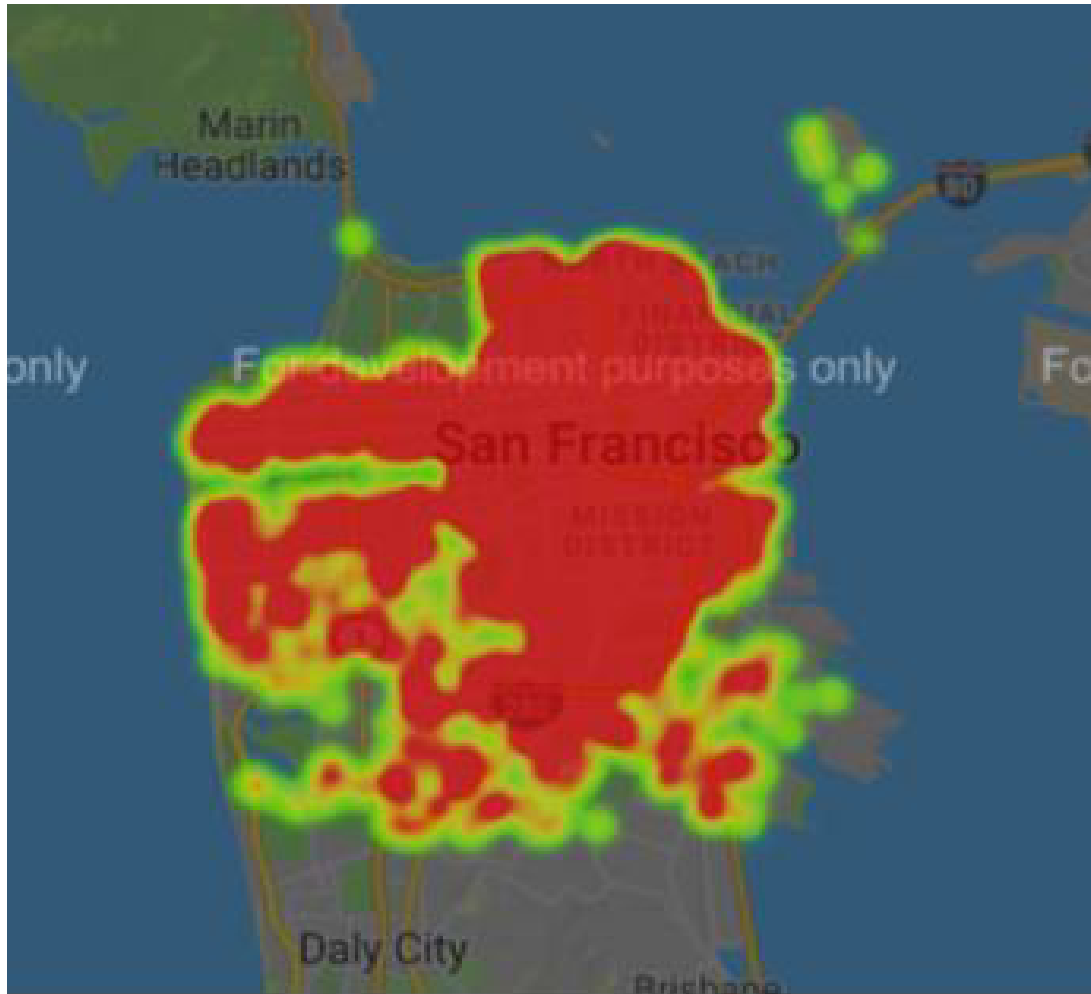
Price Predictive Model Development:

- 1) Balanced the dataset
- 2) Fit a Random Forest Regressor
- 3) Performed Cross-validation



Training vs Testing HeatMap

Training Dataset



Testing Dataset

