

# **Background**

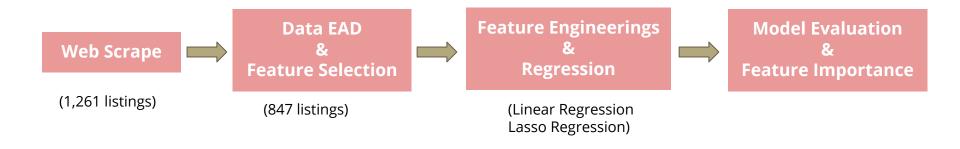


More people are listing vacation homes in Lake Tahoe on Airbnb

**Objective:** help hosts identify features could directly impact rental price on Airbnb

### **Data Sources and Tools**

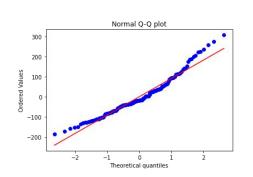
- Python 3
- Pandas & Numpy
- Matplotlib & Seaborn
- BeautifulSoup & Selenium
- Scikit-learn & StatsModels

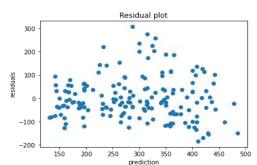


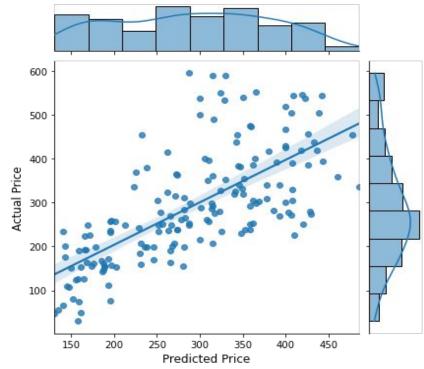
#### Predicted vs. Actual

### **Model Selection & Results**

Model	Cross Validation adj-R^2
Linear Regression	0.54
Lasso	0.55



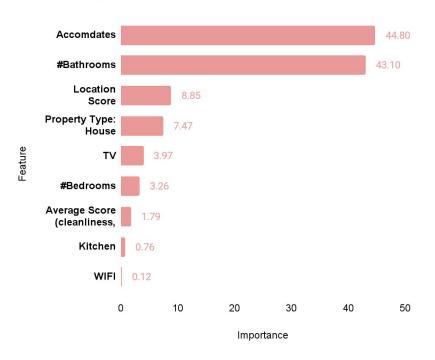




adj-R^2	0.59
RMSE	91.69

## **Feature Importance**

#### Feature Importance



Top Features in terms of Lasso coefficients (actual value)

Factors impact rental price most:

- How many people the property accommodates
- The number of bathrooms
- Ratings on neighborhood environment

## **Next Step**

- Scrape more data:
  - o property availabilities in next 7/15/30 days
  - Cleaning fees/ service fees
- Analyze by distance between the property and Lake Tahoe