

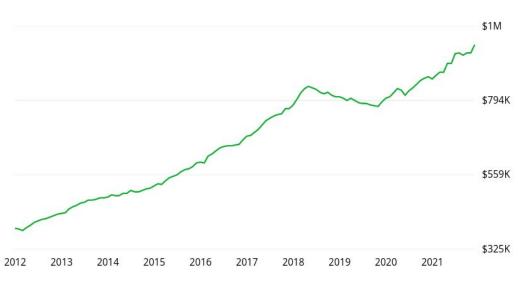
BACKGROUND

- Seattle \$970K

Average Home Price Seattle

The Problem

- Seattle house prices steadily increasing
- Difficult to know present day value of home



Source: Zillow

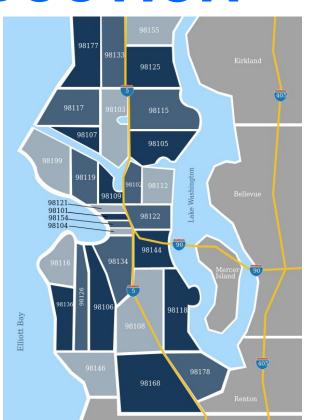
INTRODUCTION

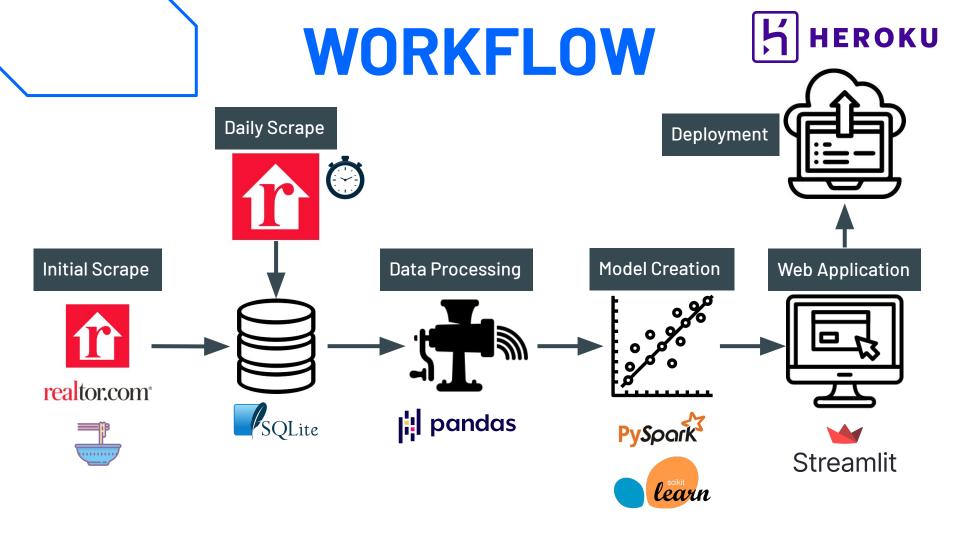
Goal

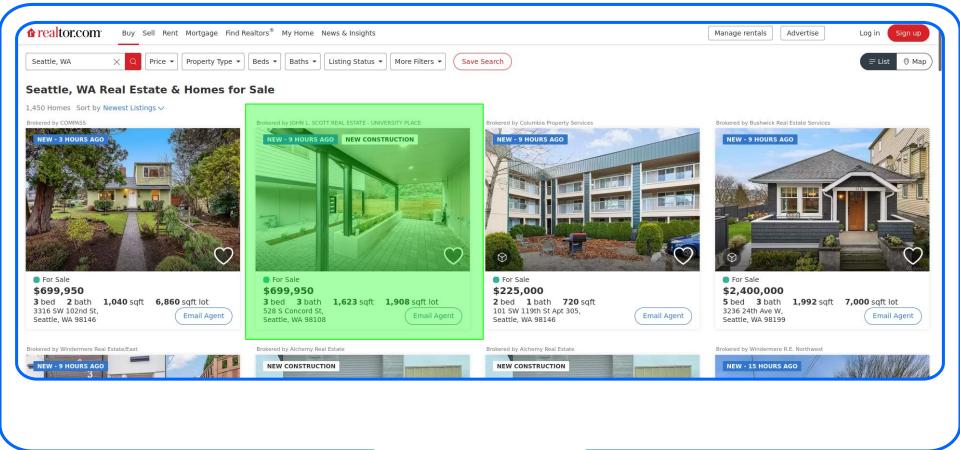
- Ensure buyers are not overpaying
- Ensure sellers are not under valuing

Solution

- Construct a Linear Regression model to predict home price
- Develop and deploy user facing house price prediction app







Data Collection

- 1,730 homes (growing daily)
- 5 features (33 with encoding)

<u>Target Variable:</u>

Sale price

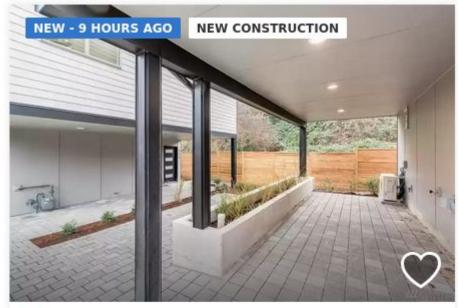
Numeric Features:

Beds Baths House Size Lot Size

Categorical Features:

Zip Code

Brokered by JOHN L. SCOTT REAL ESTATE - UNIVERSITY PLACE



For Sale

\$699,950

3 bed 3 bath 528 S Concord St, Seattle, WA 98108 **1,623** sqft **1,908** sqft lot

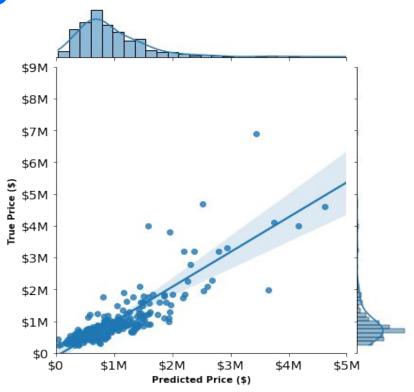
Email Agent

RESULTS

Model Analysis

- Data is right skewed
 - Lower value home = better prediction

Model Type	# of Features	R ²	MAE
Linear Regression	33	0.716	\$258,400







FUTURE WORK

- Continue to build out dataset
- Remove outliers
- Scrape large number of features
- Fit different regression model
- Tune model parameters more rigorously

Thank You

Any Questions?