



We seek to answer the following questions:

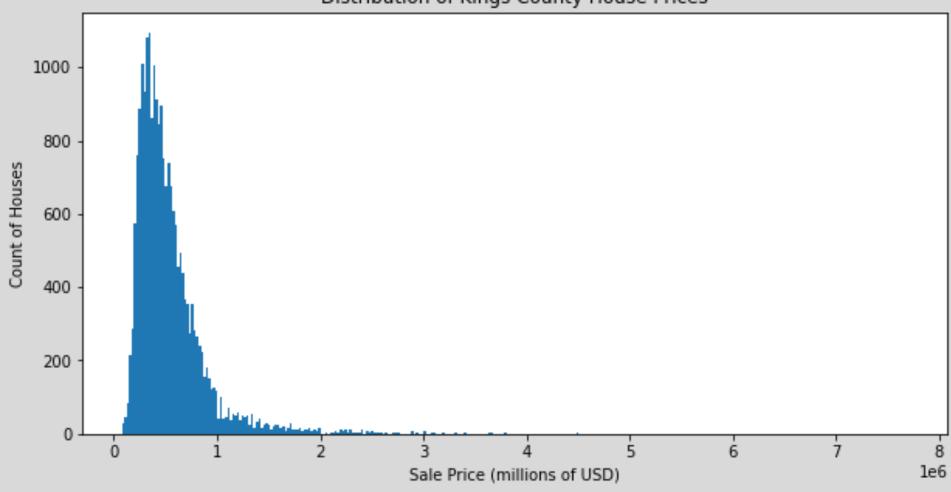
- What types of homes should Royal Homes sell to make the most profit?
- What features lend towards higher sale prices?

# THE DATA

| Feature     | Description                                    | Туре        |
|-------------|--|-------------|
| price       | sale price (USD)                               | numerical   |
| sqft_living | square footage of living space                 | numerical   |
| zipcode     | ZIP code used by the USPS                      | categorical |
| waterfront  | whether the house is on the waterfront         | categorical |
| view        | quality of the view from house                 | categorical |
| condition   | how good the overall condition of the house is | categorical |



#### Distribution of Kings County House Prices



## THE MODEL

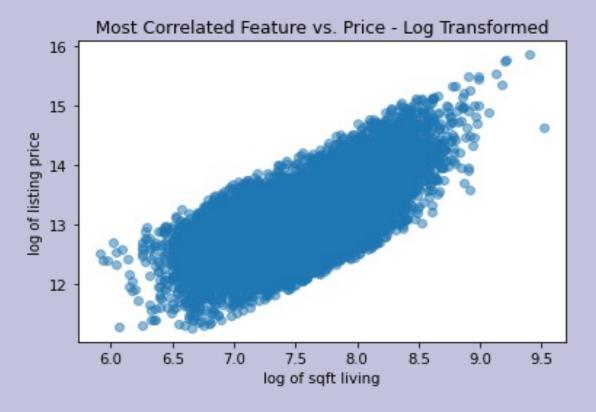
#### Features:

- sq. ft. of living space
- zip code
- waterfront status
- view
- condition



## MODEL SELECTION





## MODEL RESULTS

85% of variability in price explained by the model

Probability that coefficients are 0 is less than 5%

Meets model assumption (normality)

 $R^2$ : 0.845

P-values < 0.05

Skew: 0.05

Coefficient – sq. ft. living (log): 0.68

Coefficient – zip 98039 : 1.50

Suggestive of strong positive relationship between price and sq. ft. living; zip code 98039

#### RECOMMENDATIONS

- Sell homes in the following zip codes: 98039, 98004, 98112, 98102, 98109
- Focus on homes with 2500 sq. ft.
  living or higher
- Target waterfront properties and homes with good or excellent views
- Avoid houses in fair or poor condition



## NEXT STEPS

- 1. Do a deep dive on top zip codes what attributes do these houses most commonly feature?
- 2. Find data that breaks down 'view' into more specific categories water view vs city view vs greenery, for example
- 3. Gather data on sales in more recent years are there any attributes that are more impactful on sale price now?

# THANKYOU

If any additional questions, feel free to reach me at:

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