



# BRB REALTY LLC: REAL ESTATE PREDICTIVE MODELING

#### INTRO





WHAT WE DO:
YOUR DREAMS → REALITY

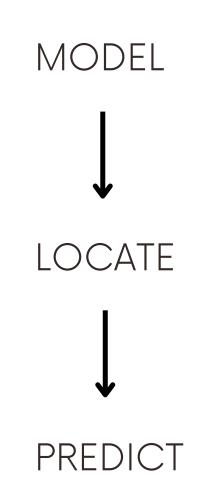
#### YOUR GOALS:

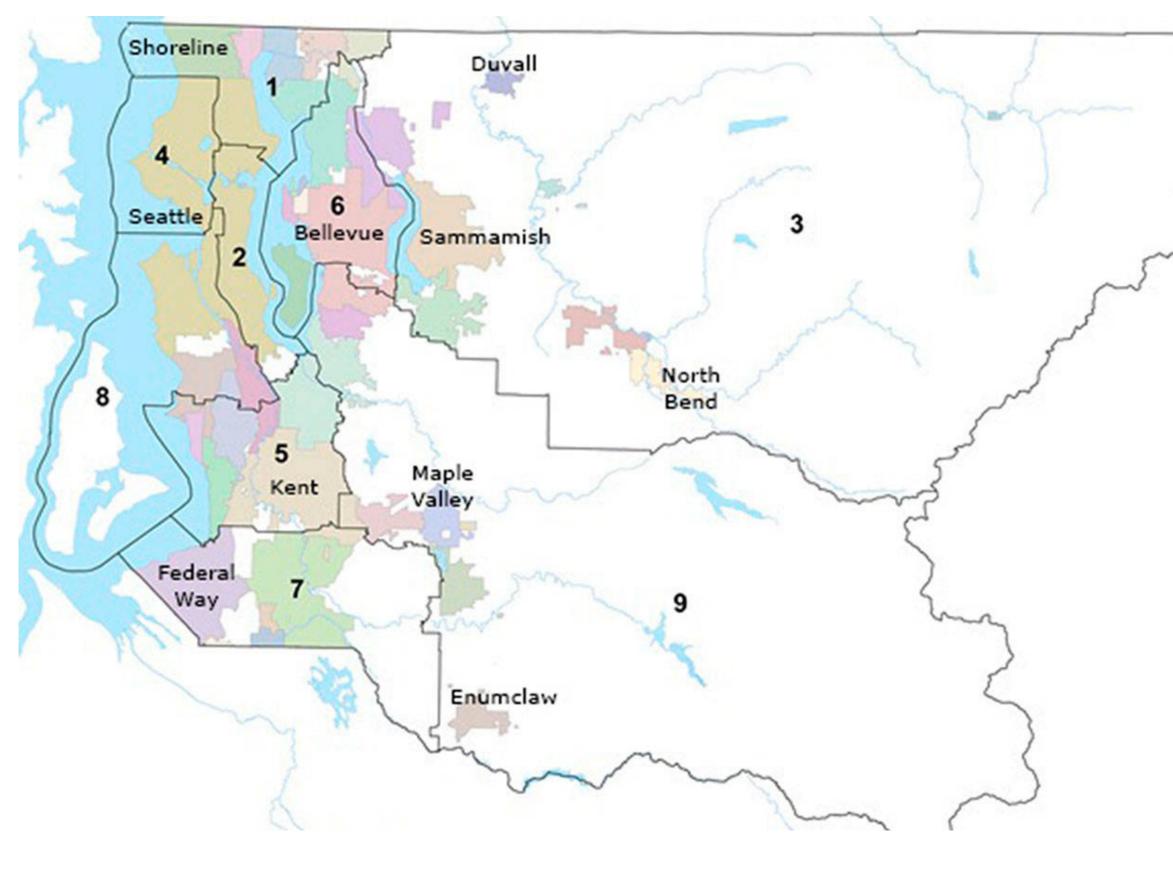
Buy and sell homes to young families in the greater Seattle Area (King's County).

At least a 9% ROI

Help young, growing families find safe, family-friendly homes in good school districts at an affordable cost.

#### **OUR SOLUTION:**





### **OUR DATA:**

KCSO Offense Reports 2020 to Present.csv ~55,000 crimes

KC\_Housing\_Data.csv
21,500 homes

WA State School District Rankings
2020.csv
250 school rankings

Final: 20,632

#### **METHODS**

LINEAR REGRESSION MODEL - 1 FEATURE

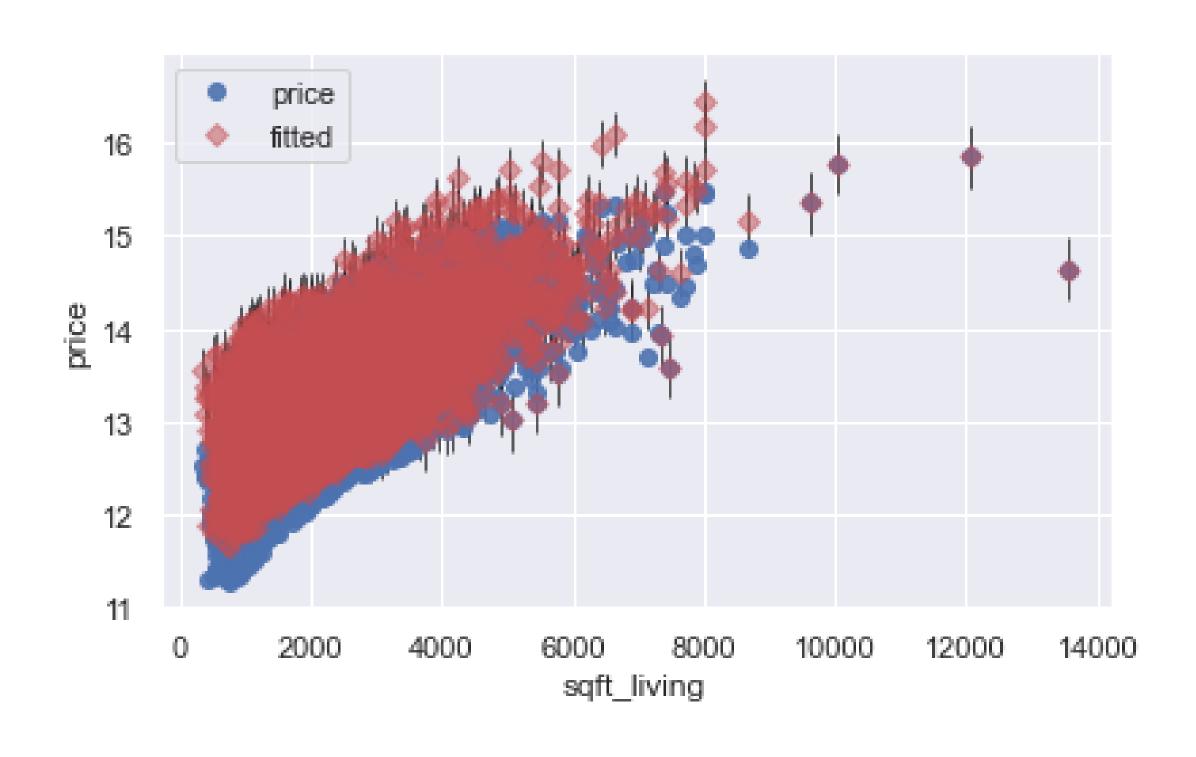
DATA ENGINEERING

RECURSIVE ELIMINATION METHOD

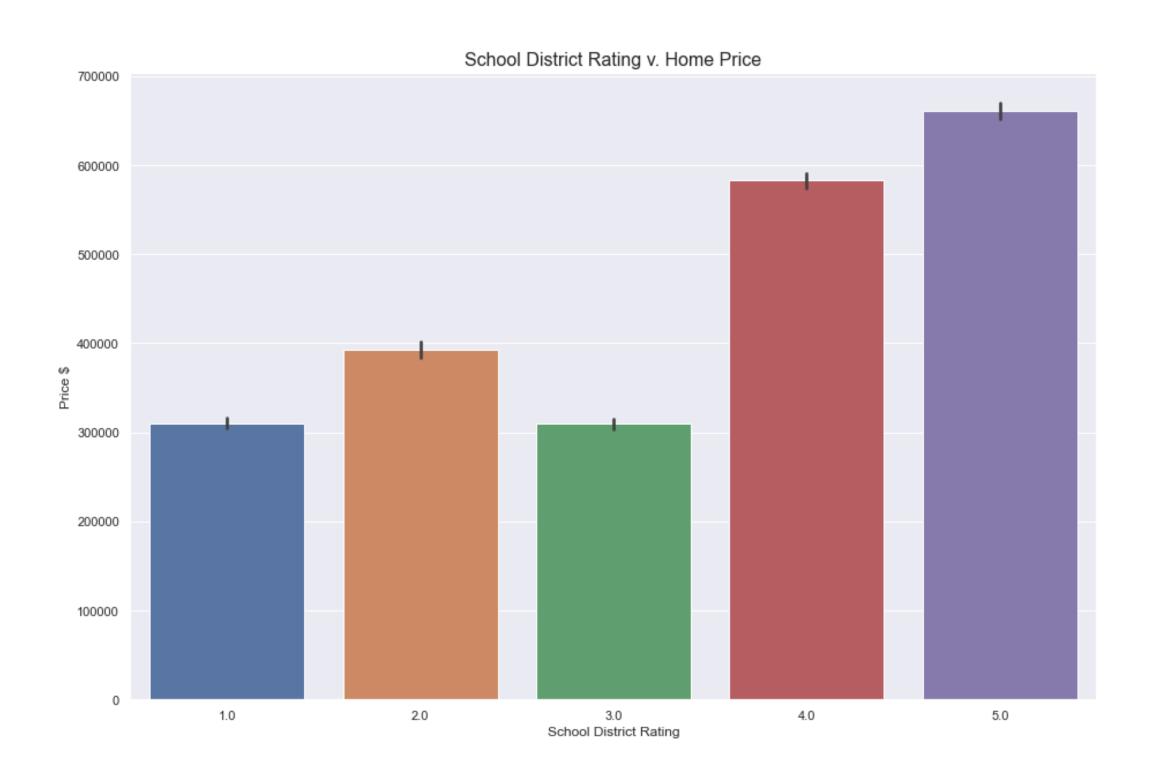
LINEAR REGRESSION MODEL - MULTIVARIABLE

MULTICOLLINEARITY ANALYSIS

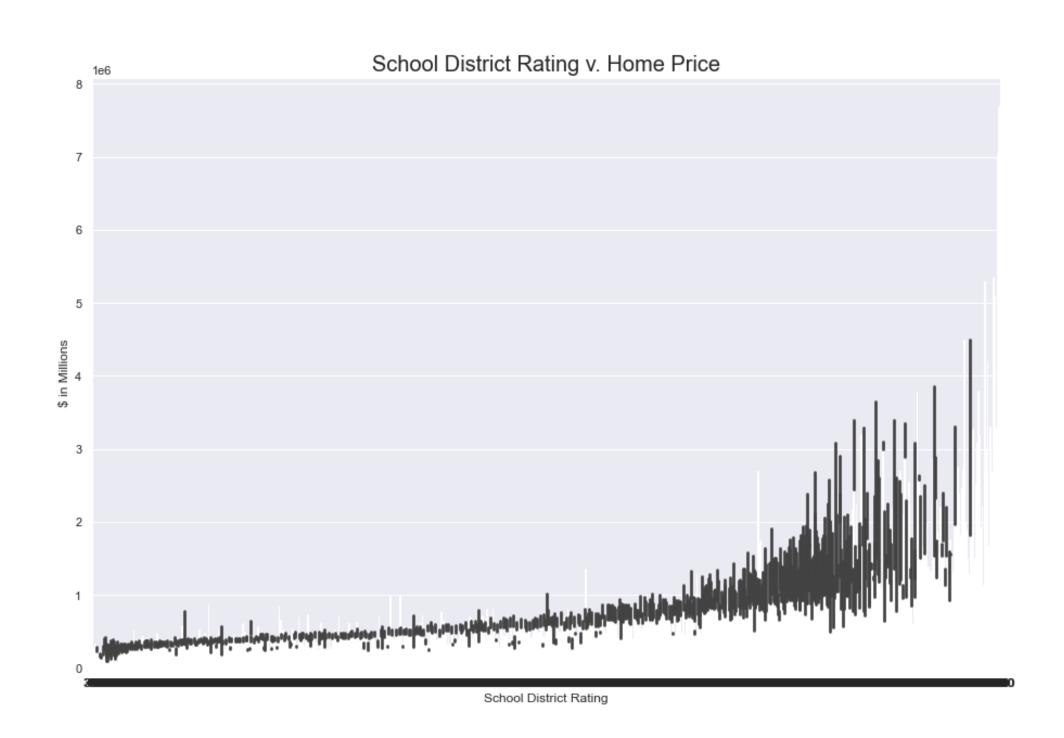
### LINEAR REGRESSION MODEL - SINGLE VARIABLE



## DATA ENGINEERING: SCHOOL DISTRICT RATING VS. PRICE



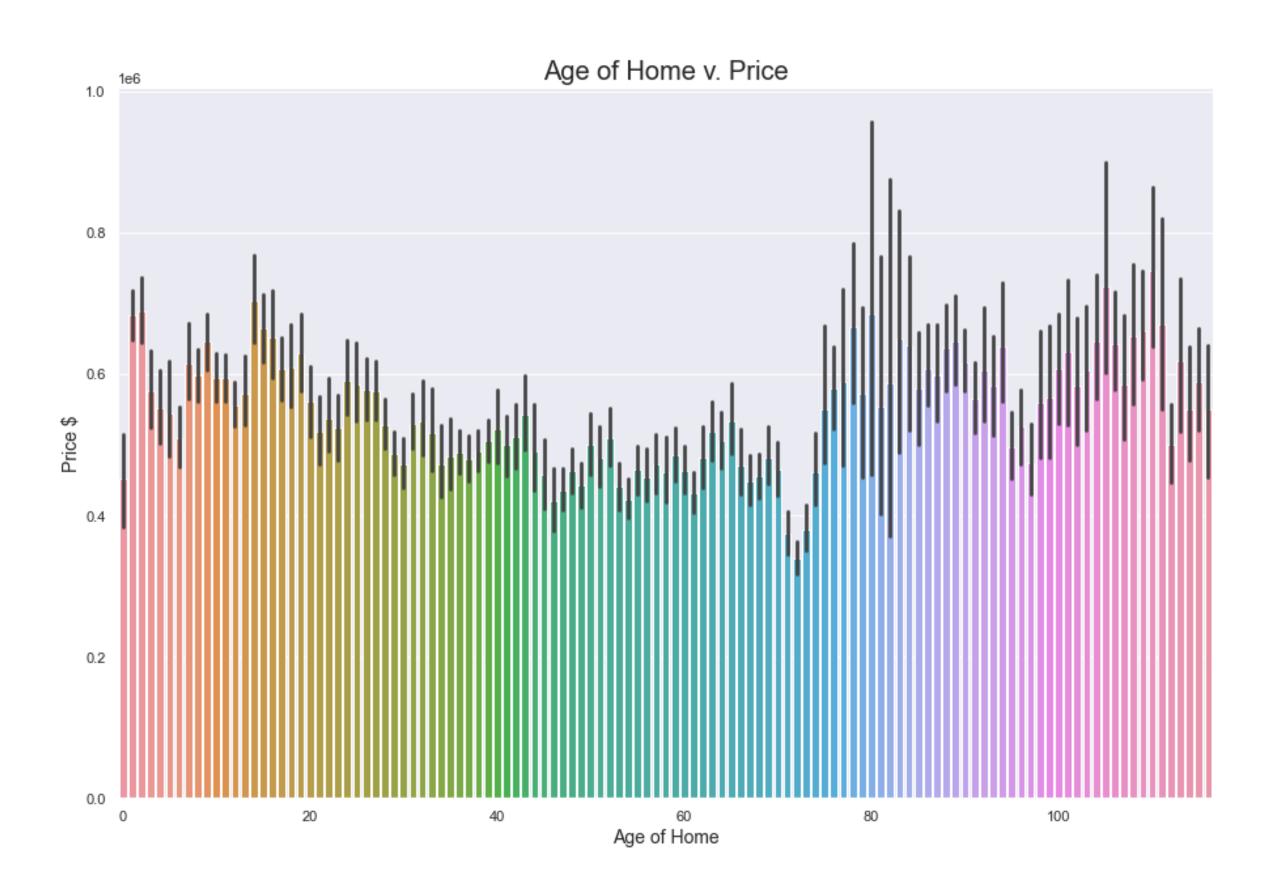
# DATA ENGINEERING: SQUARE FOOT LIVING VS. PRICE



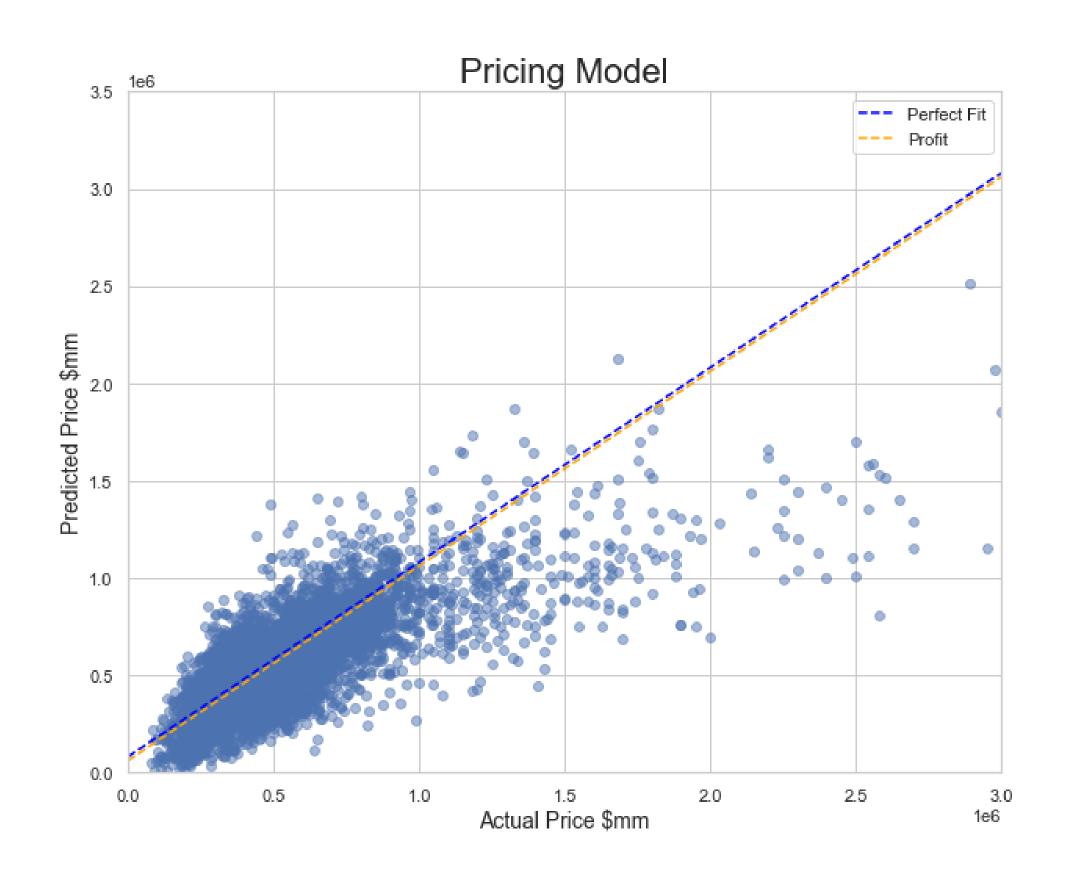
# DATA ENGINEERING: SAFETY RATING VS. PRICE



# DATA ENGINEERING: AGE OF HOME VS. PRICE



### LINEAR REGRESSION MODEL - MULTIVARIABLE

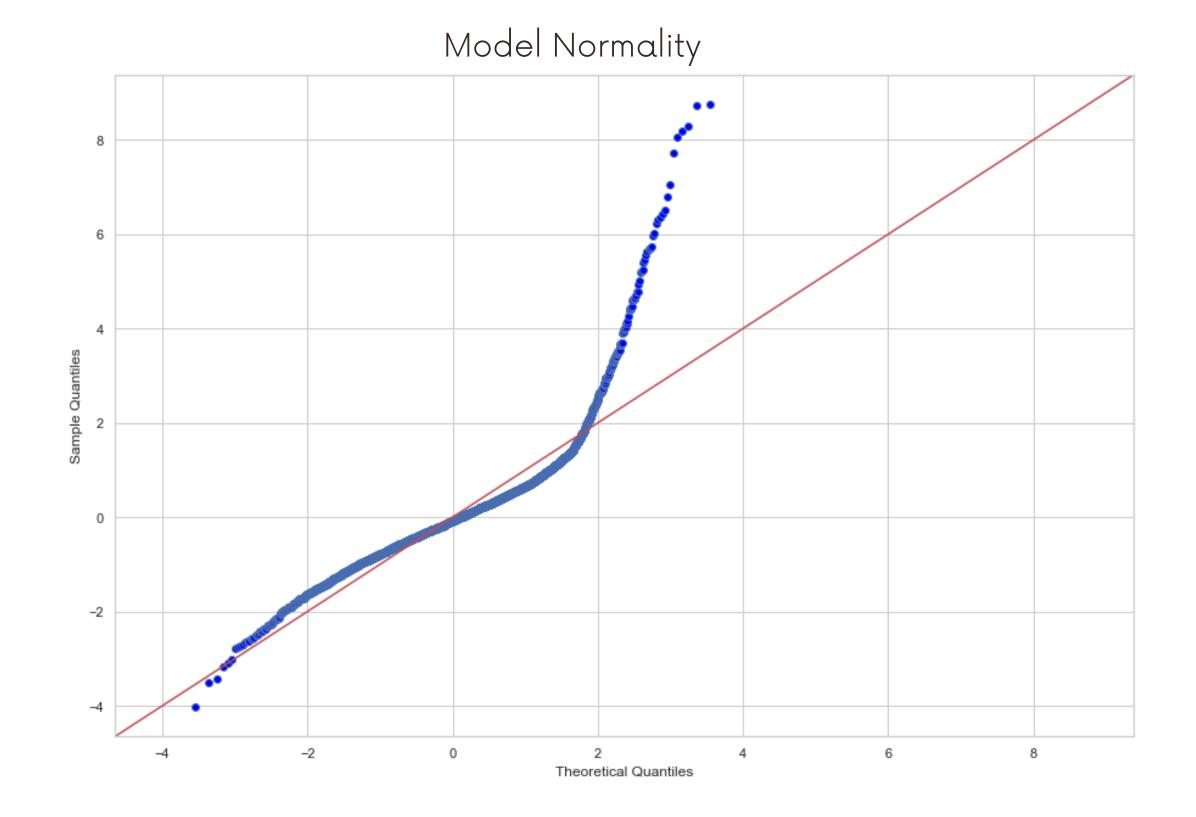


### LIMITATIONS

SAFETY RATING

LIMITED TIME FRAME

NO LINEAR DATA



#### RECOMMENDATIONS

- IN ADDITION TO SQ-FT LIVING:
  - SCHOOL RATING
  - SAFETY RATING
  - HOME AGE

- EXPLORE DATA POINTS UNDER PROFIT LINE, SPECIFICALLY WITH:
  - High Safety Rating
  - High School Rating
  - High "Grade" score

### NEXT STEPS

Compare linear Data

Further Investigate Safety Data

Consider the cost of construction/ renovation vs. current value

Explore Date of construction with cost of construction vs. current value





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