

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

PHASE 2 PROJECT

Regression Analysis

BUSINESS PROBLEM

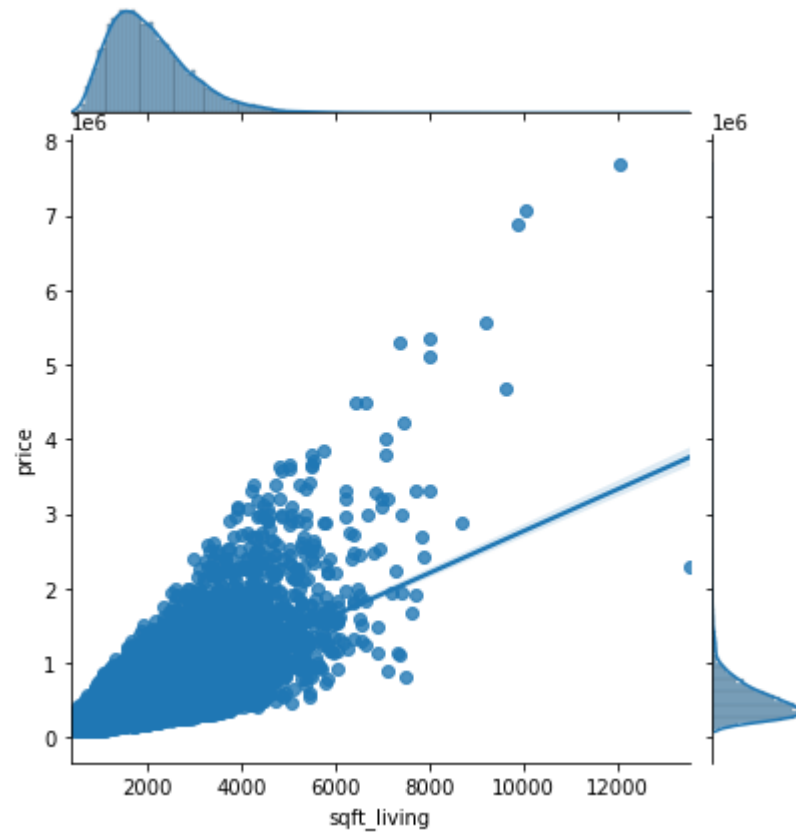
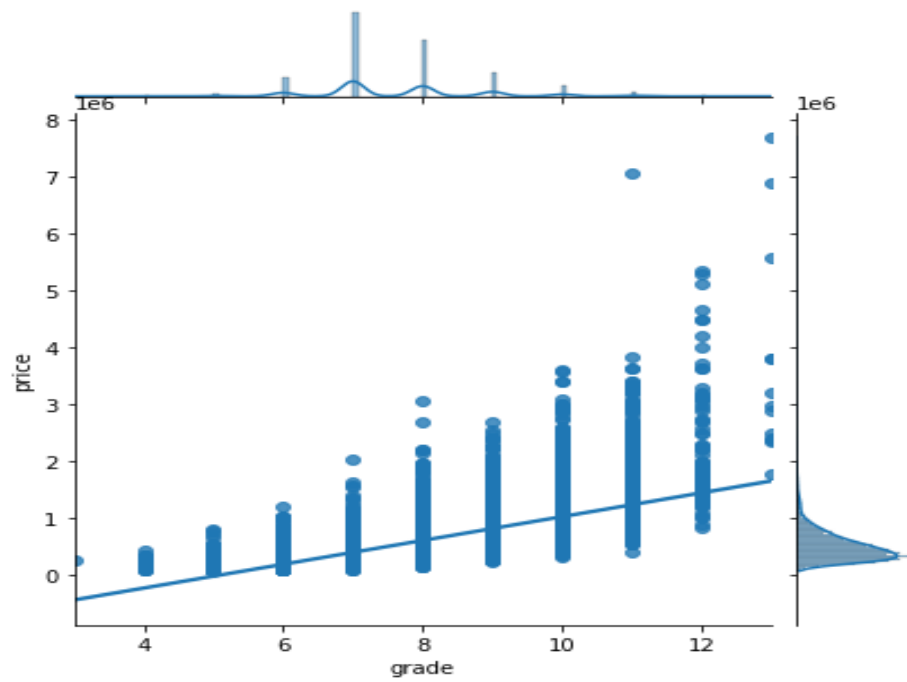
The need to provide advice to homeowners about how home renovations might increase the estimated value of their homes, and by what amount

Data Investigation and Cleaning

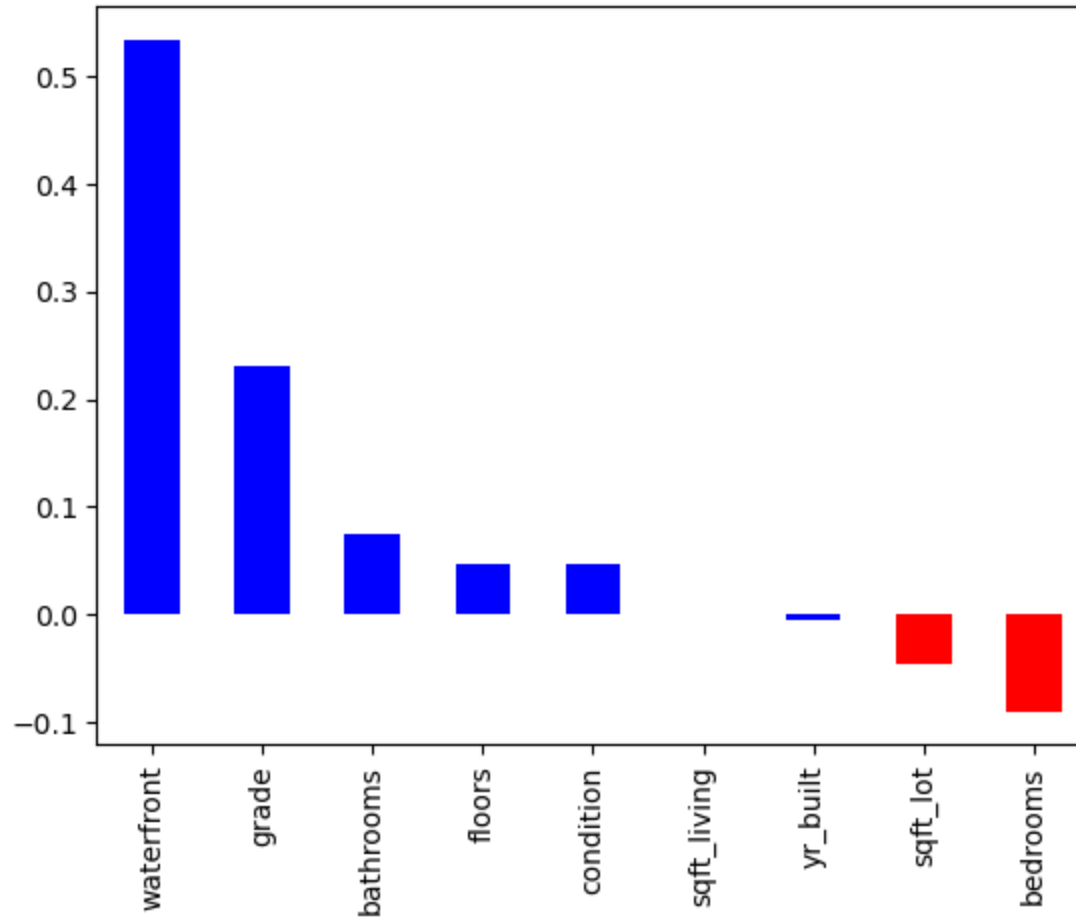
- ▶ Data was investigated and the following columns dropped
- ▶ * date
- ▶ * view
- ▶ * sqft_above
- ▶ * sqft_basement
- ▶ * yr_renovated
- ▶ * zipcode
- ▶ * sqft_living15
- ▶ * sqft_lot15

Variables/Columns worked with

- ▶ Bedrooms
- ▶ Bathrooms
- ▶ Sqft living
- ▶ Sqft lot
- ▶ Floors
- ▶ Waterfront
- ▶ Condition
- ▶ Grade
- ▶ Year built
- ▶ Latitude
- ▶ Longitude



A quick view into the data shows a positive correlation between grade and sqft living



Several models were used and the best model was used

Findings

- ▶ The findings were that the variables that have the most impact on features were waterfront, grade and bathrooms
- ▶ Bedrooms and sqft lot showed a negative correlation on price

Recommendations

- ▶ Improve the grade of the house as it will increase the price
- ▶ Were possible and budget friendly adding a waterfront will guarantee increase in price
- ▶ Increasing the bathrooms will also increase the price of the house
- ▶ Invest in good floors as they increase the price

Conclusion

- ▶ There are several variables that have no impact on price and should be majored on while renovating whereas some have a great impact and those should be the focus