



King County Housing Market Trends

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Business Problem

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Business Problem

- One potential business problem for the `kc_house_data` could be predicting the sale prices of houses in the King County area
- This information could be useful for real estate agents and home buyers in the area, as it would allow them to make more informed decisions about the value of properties they are interested in



Solution

- To solve this problem, a machine learning model could be trained on the `kc_house_data` to learn the relationship between various factors, such as the size of the house, the location, and the condition, and the sale price. This model could then be used to make predictions on new, unseen data.

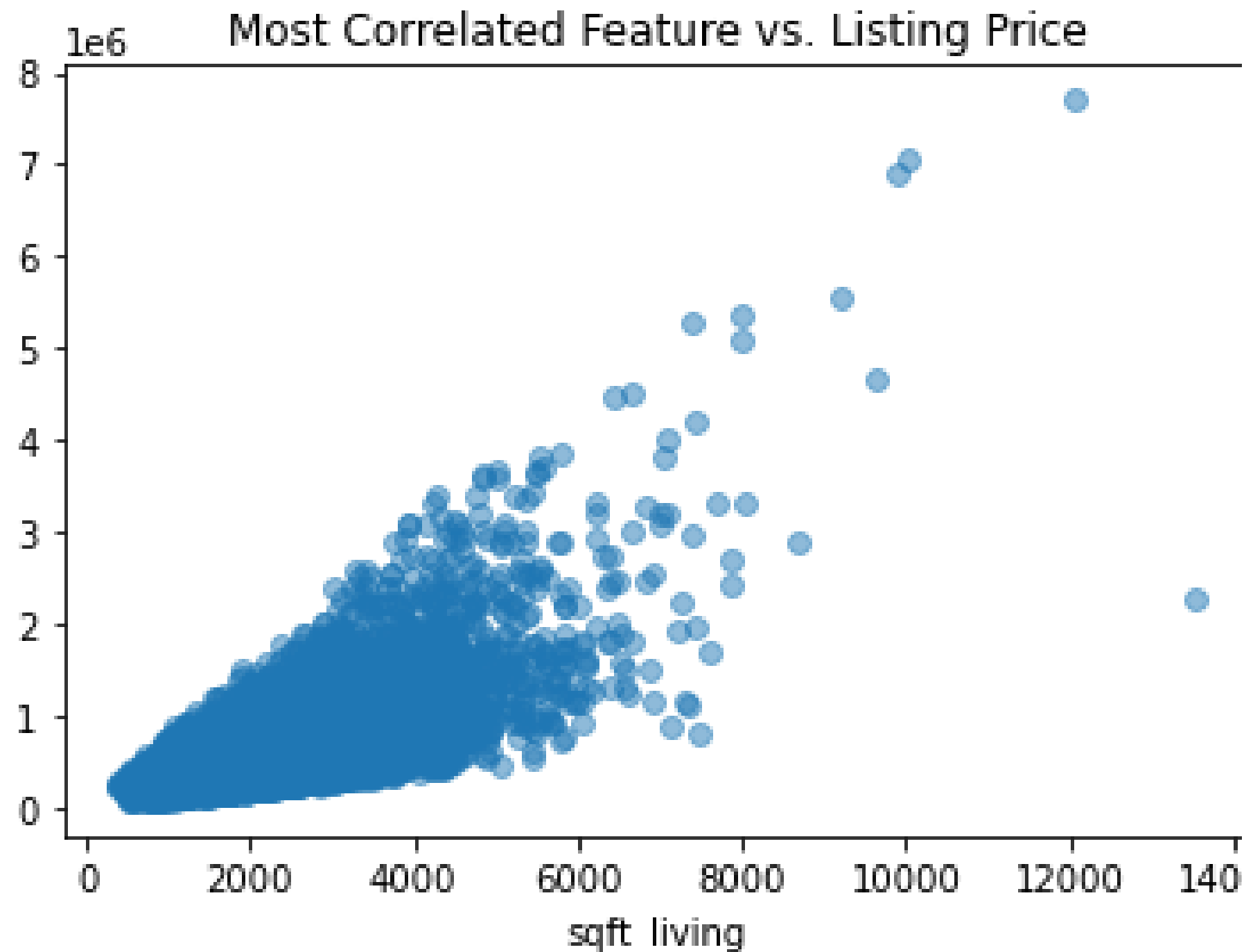


Data and Methods

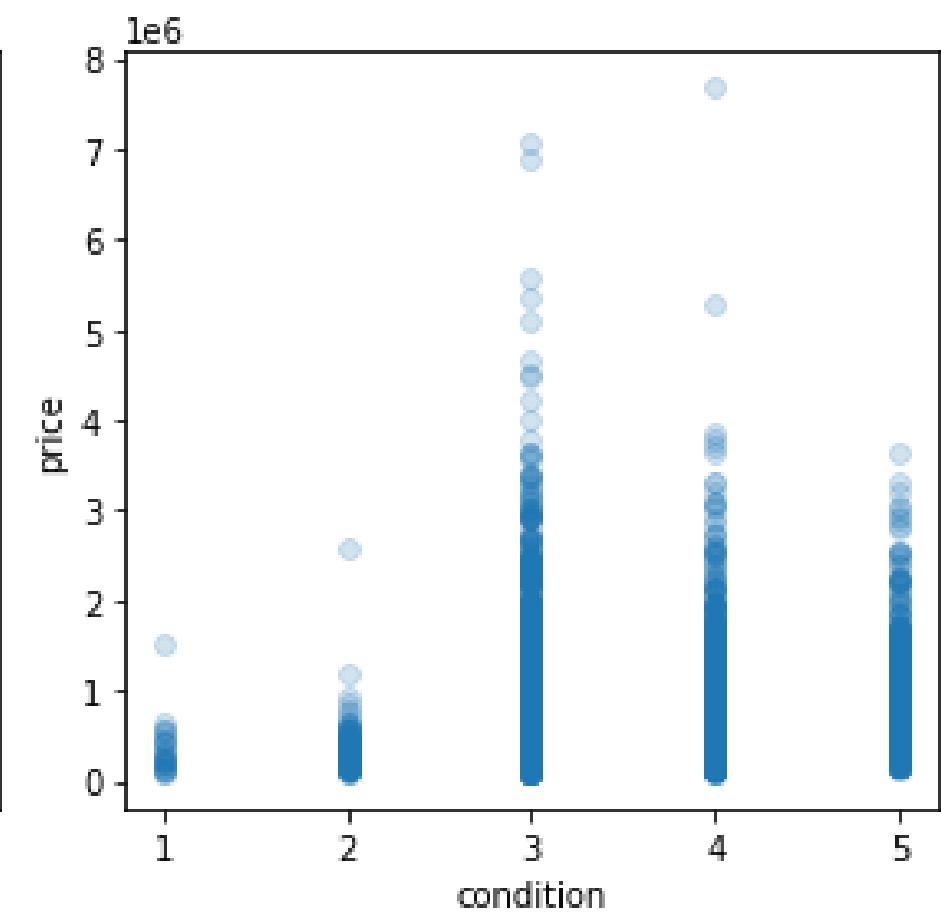
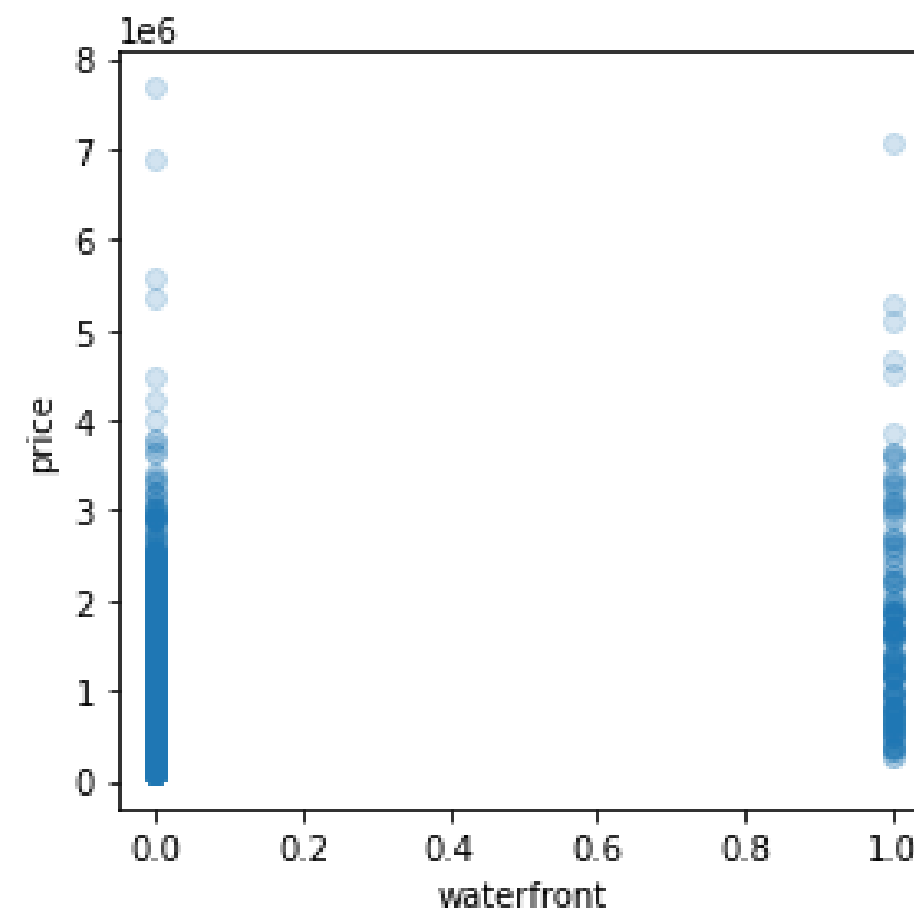
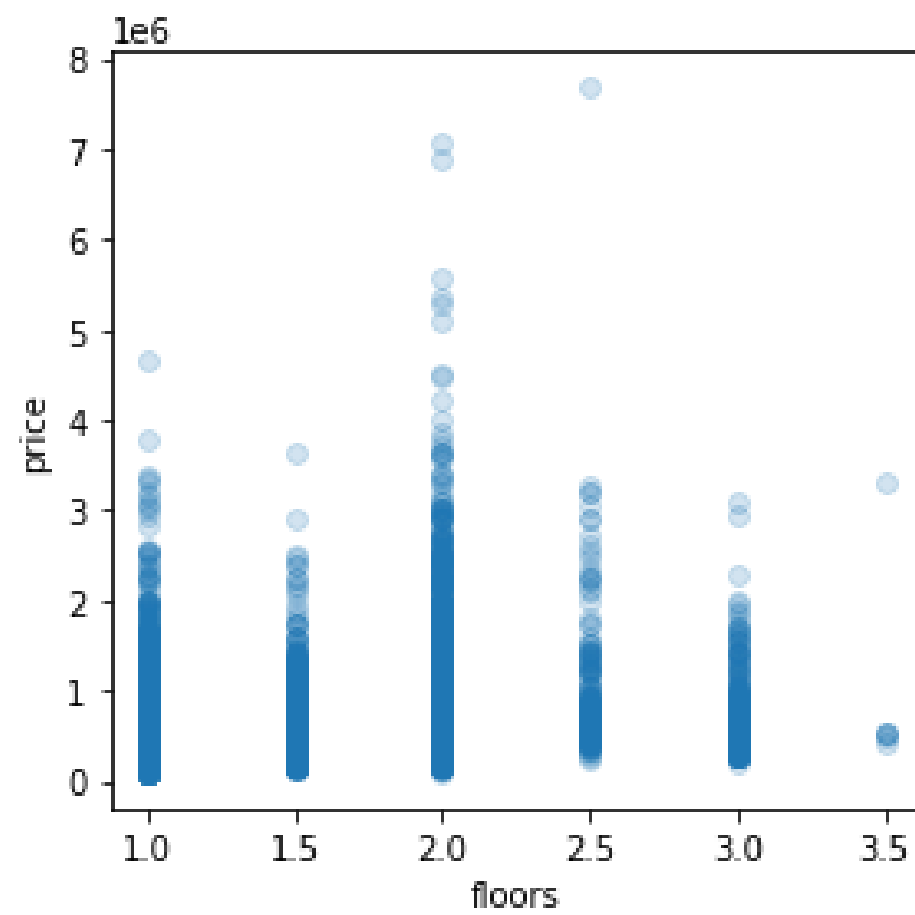
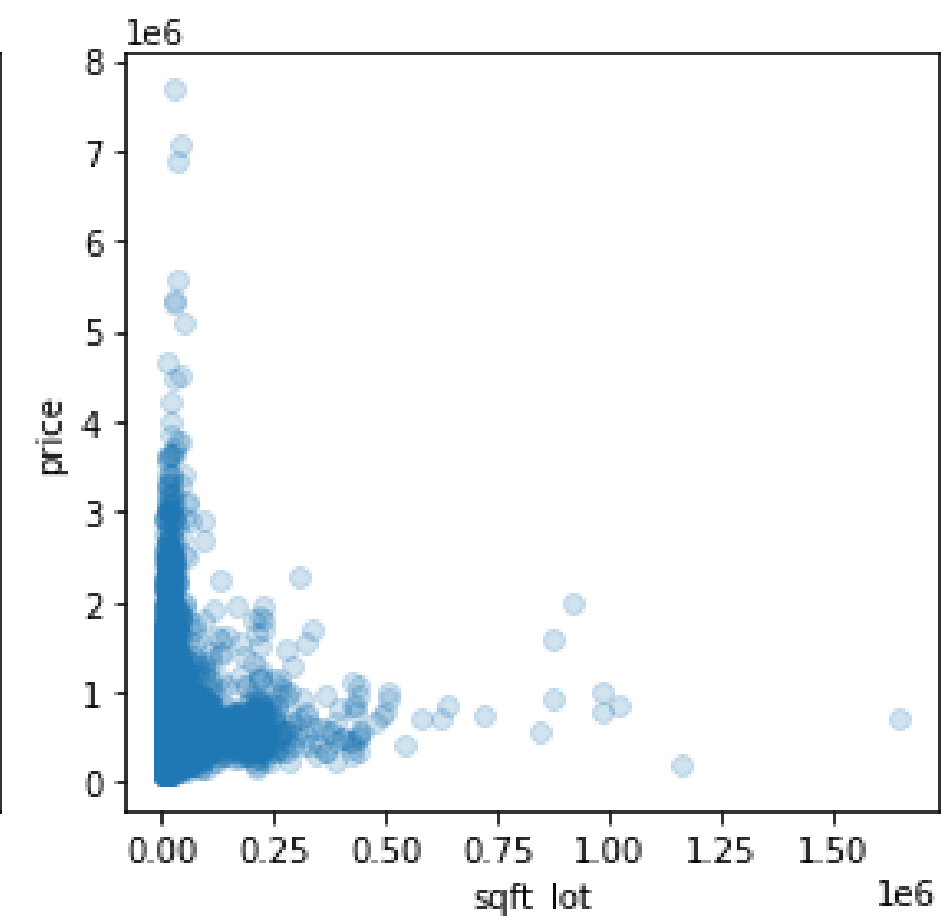
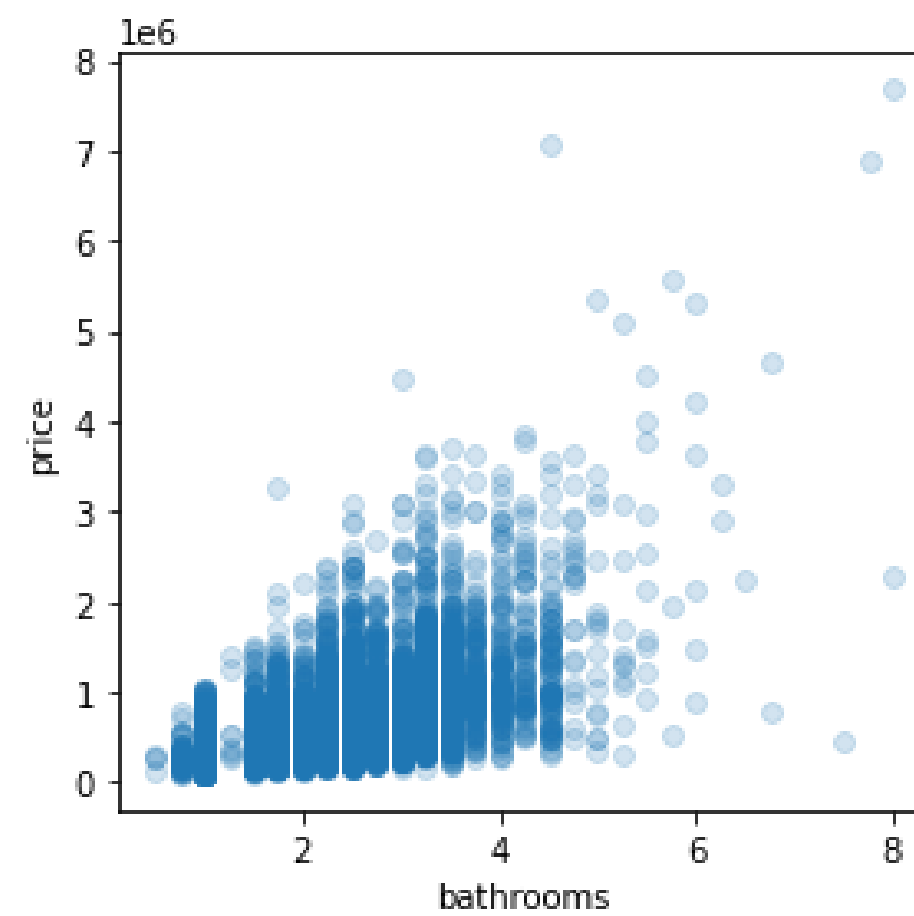
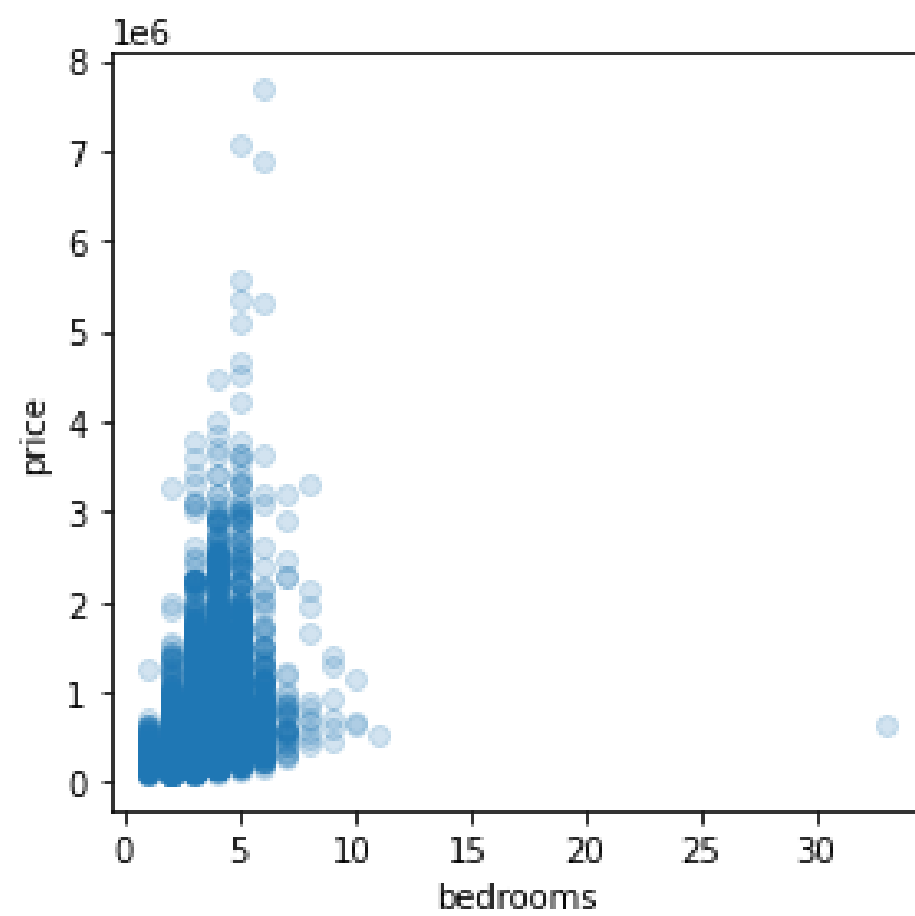
Data is from `kc_house_data.csv`

- A combination of data and statistical algorithms was used to predict outcomes.
- Data was cleaned, and prepared for analysis.

Results



- This Scatter plot is used to visualize the relationship between footage of the home and price of the house
- It is the most correlated feature meaning the bigger your house the more expensive it is.



Conclusion

- The most profitable house feature is the square footage
- As per the condition plot, it shows that houses with conditions 3 and 4 have higher prices than houses with conditions 5 which is surprising if provided with more data it is something interesting that we can analyze.
- Most of the house features have a relationship with a price apart from the waterfront.

Recommendation

- Build houses with a large square footage
- Build houses with conditions 3 or 4
- Focus on 3-bedroom houses
- Waterfront is a luxury feature not everyone can afford it



"IN GOD WE TRUST; ALL OTHERS MUST BRING DATA." - W.
EDWARDS DEMING

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