

Tenants and Landlords, the Key to Harmony

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**Iowa does not impose any rent
control measures.**

What if...

Iowa public officials had the power to estimate home values?

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- Bridges the gap between too high and too low rent controls
- Renters pay fair rent
- Landlords receive lower tenant turnover
- Address housing crisis

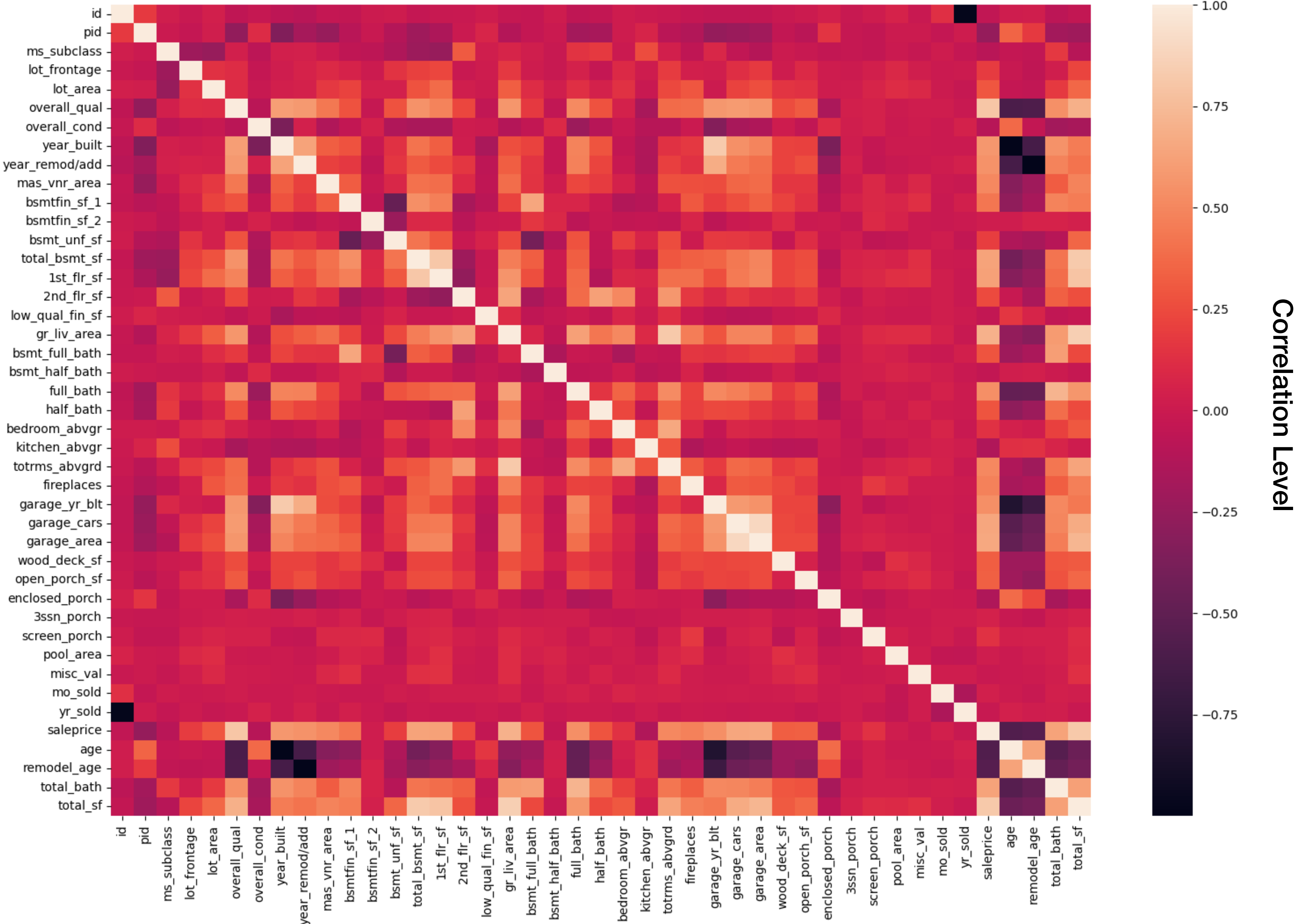
What makes a successful model?

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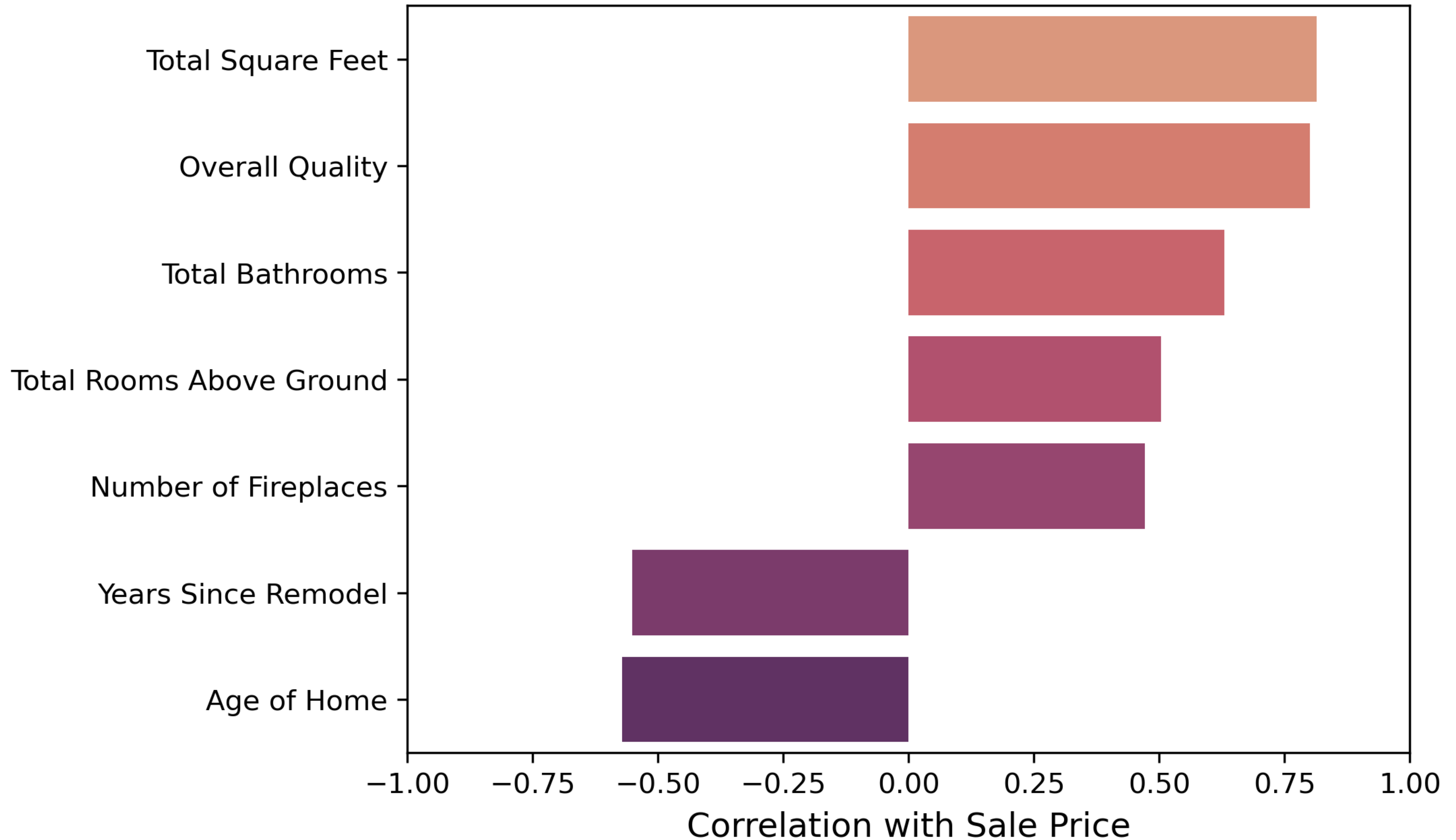
- Accurate
- Interpretable
- Cost-Efficient

Walk-through

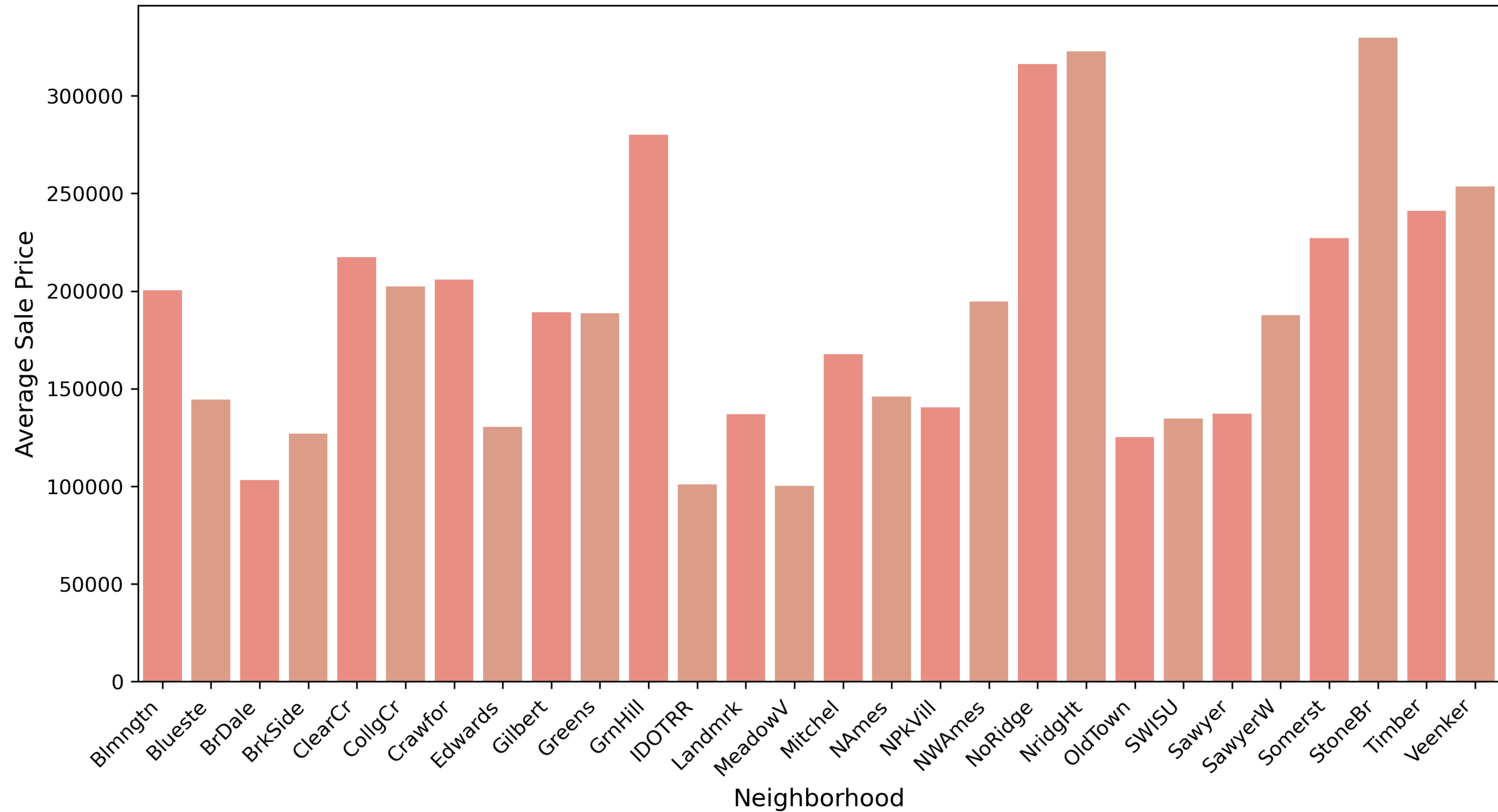
Correlation Map of Initial features



Feature Correlation with Sale Price



Average Sale Price per Neighborhood



Is it accurate?

Features

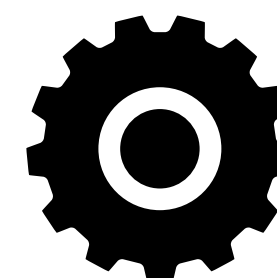
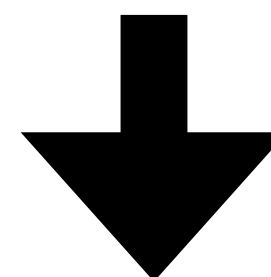
Sale Price

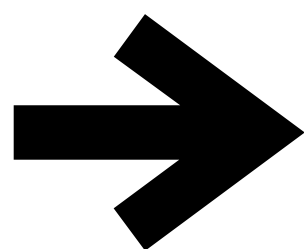
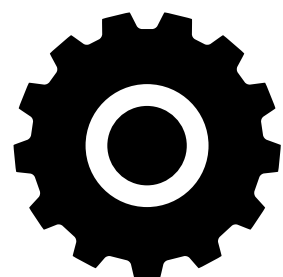
Features

Sale Price

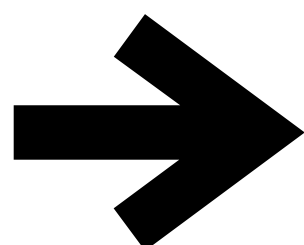
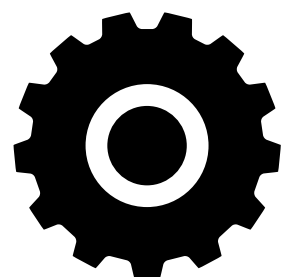
Features

Sale Price

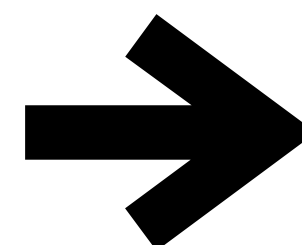




Features	Sale Price



Features



Predicted Sale Price



Sale Price



Sale Price



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Predicted Sale Price



Sale Price



Predicted Sale Price



Error

Error

Mean Absolute Error of our Model

\$18,230

- Predictions are only off by \$18,230 on average
- Gives us a reasonably close estimate
- Just what tenants and landlords need.
- Remains interpretable
- Efficient

Conclusion

- Our model is the most ideal to establish reasonable rent control thresholds
- It satisfies our successful metrics
 - Interpretable
 - Accurate
 - Cost effective
- Renters pay fair rent
- Landlords receive lower tenant turnover

Thank you

Sources