

# Ames Iowa Home Sales Price Predictor



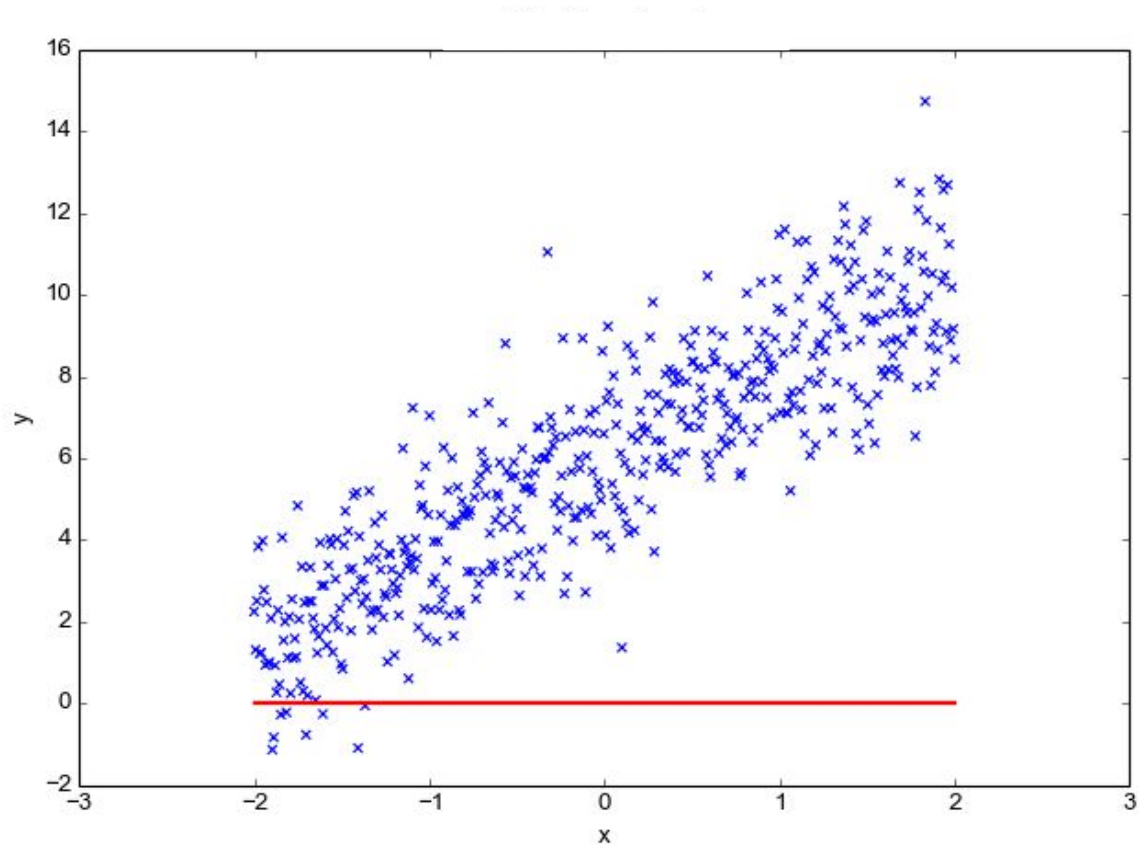
Erik Mercado

# The processes of buying a home is...

- Lengthy
- Complex
- Tiresome



# The Predictor

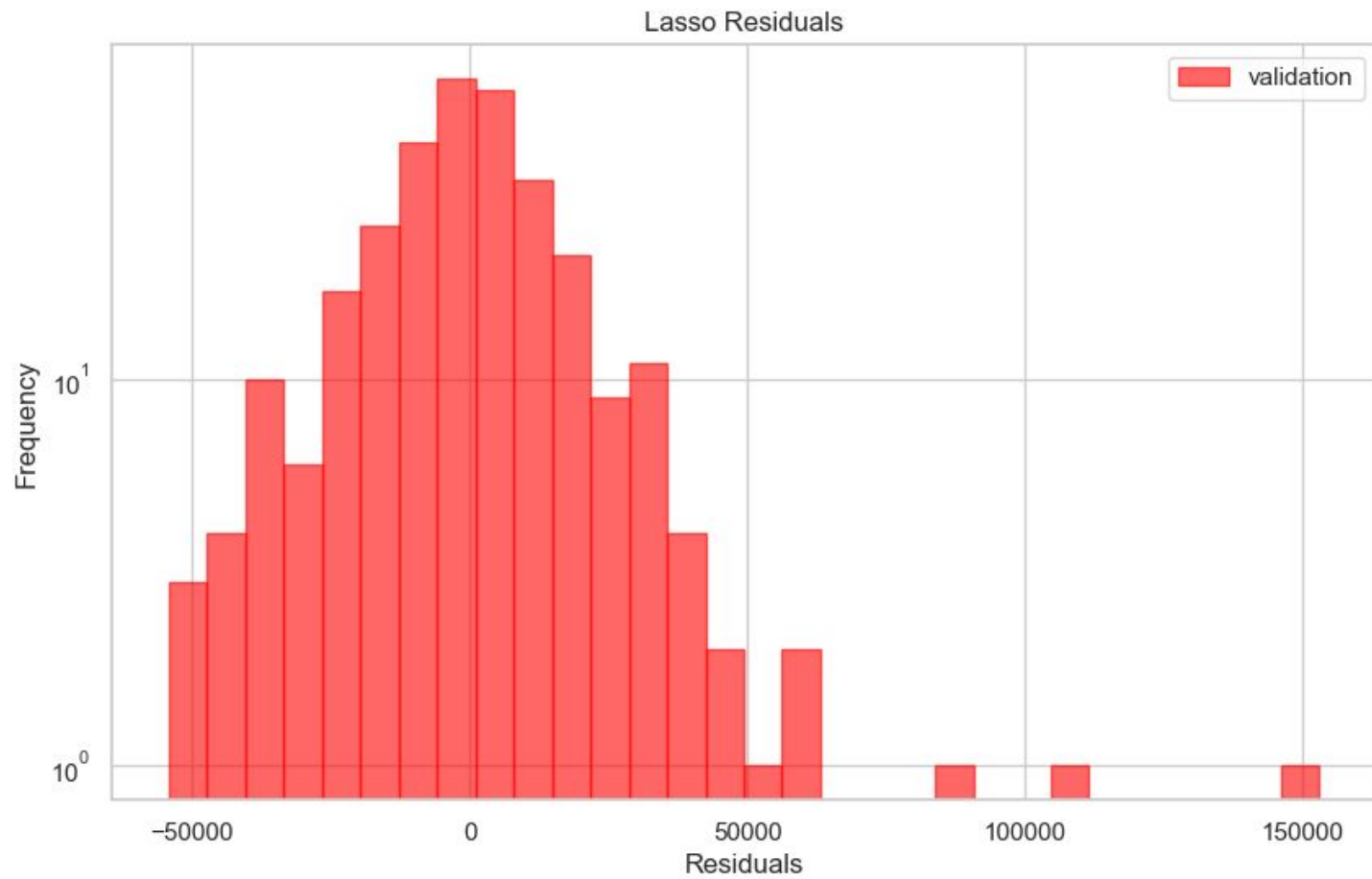


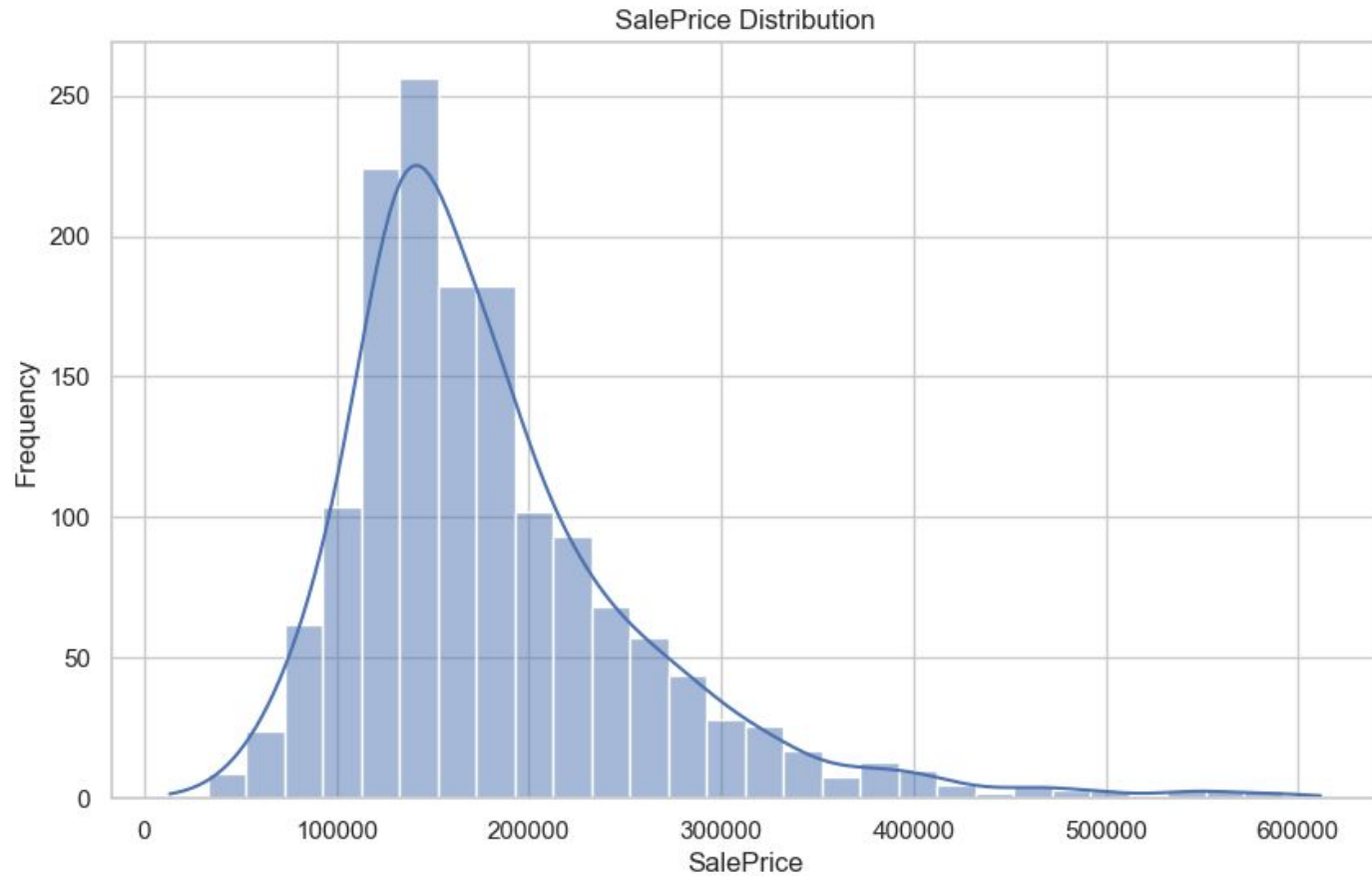
# Ames Housing Dataset

- Contains wide characteristics
  - Year built, # rooms, Sq Feet, etc..
- Variety of homes
- Information about surrounding area
  - Proximity to parks, feeder streets

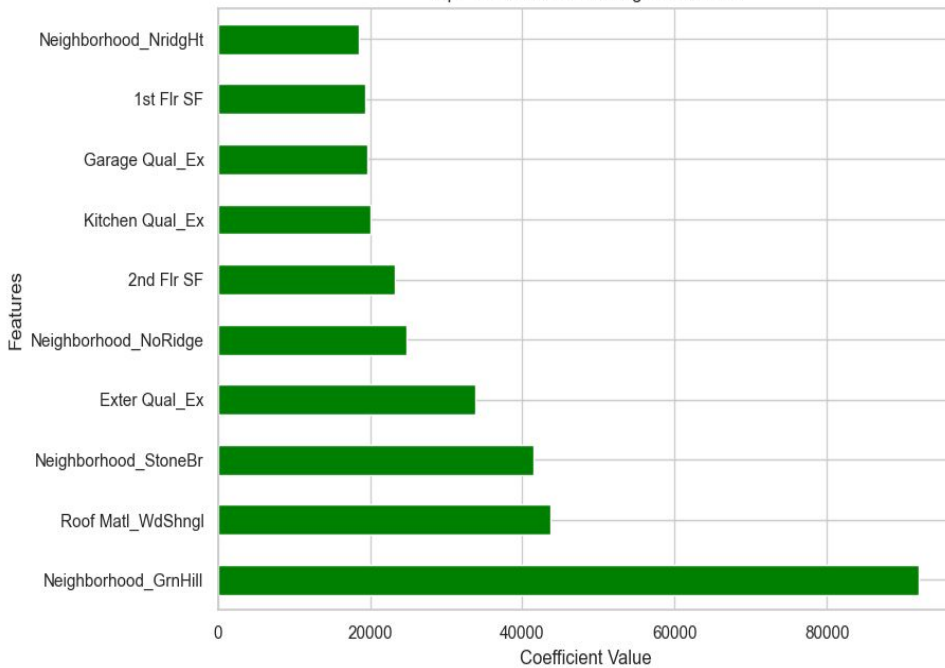
# Predictor Performance

- Root Mean Squared Error
  - On average my predictor is off by \$21,771.42
- $R^2$ 
  - Explains 92.26% of the variance in Sale Price

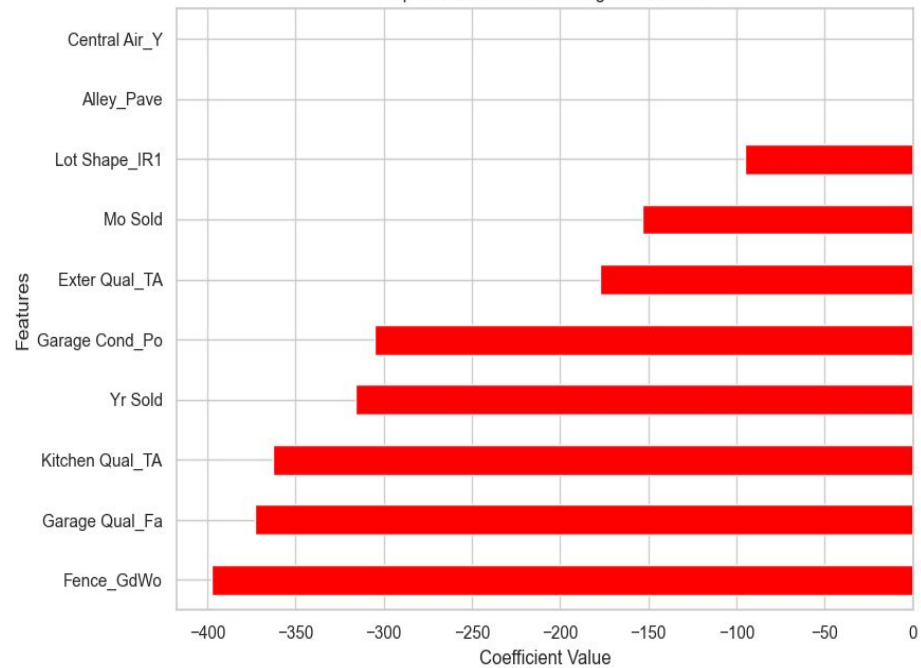




Top 10 Features Increasing House Price



Top 10 Features Decreasing House Price





# Summary

- Saves Time and Money
- On average off by \$22k
- Explains 92% of variation in sale prices
- Feature importance

Thank You

# References

## Data Dictionary

- <https://jse.amstat.org/v19n3/decock/DataDocumentation.txt>