

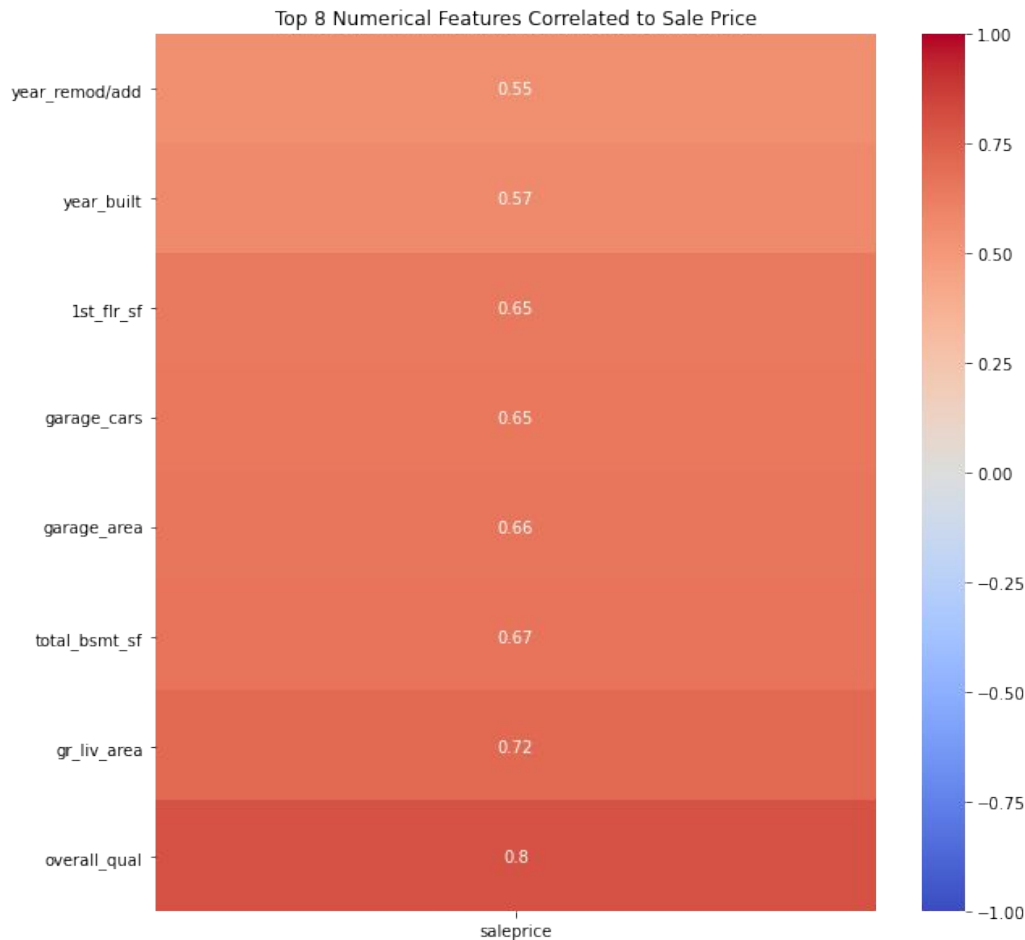


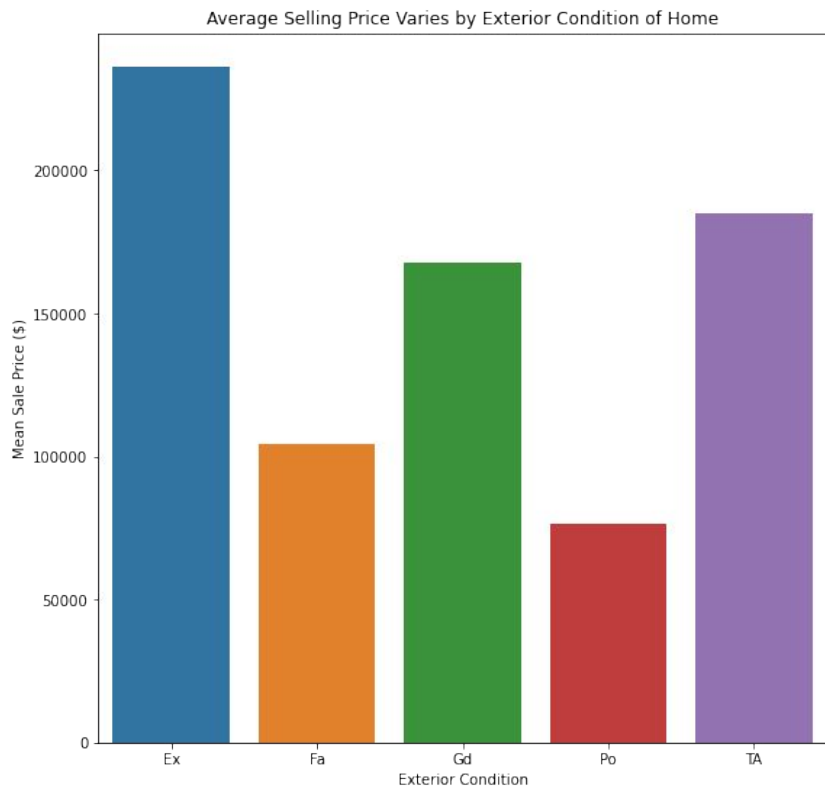
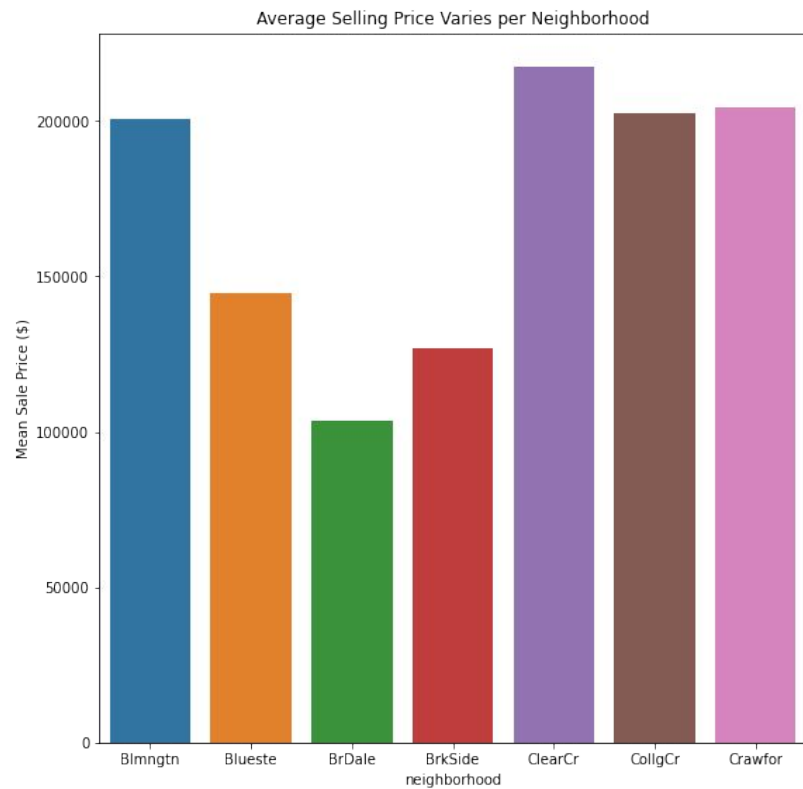
# **Predicting Value: Aiding Home Appraisers Objectively Determine the Value of a Home in Ames, Iowa**

Ethan Kuehl

## Data

- 81 features
- 2051 samples







## Modeling Likely Home Prices

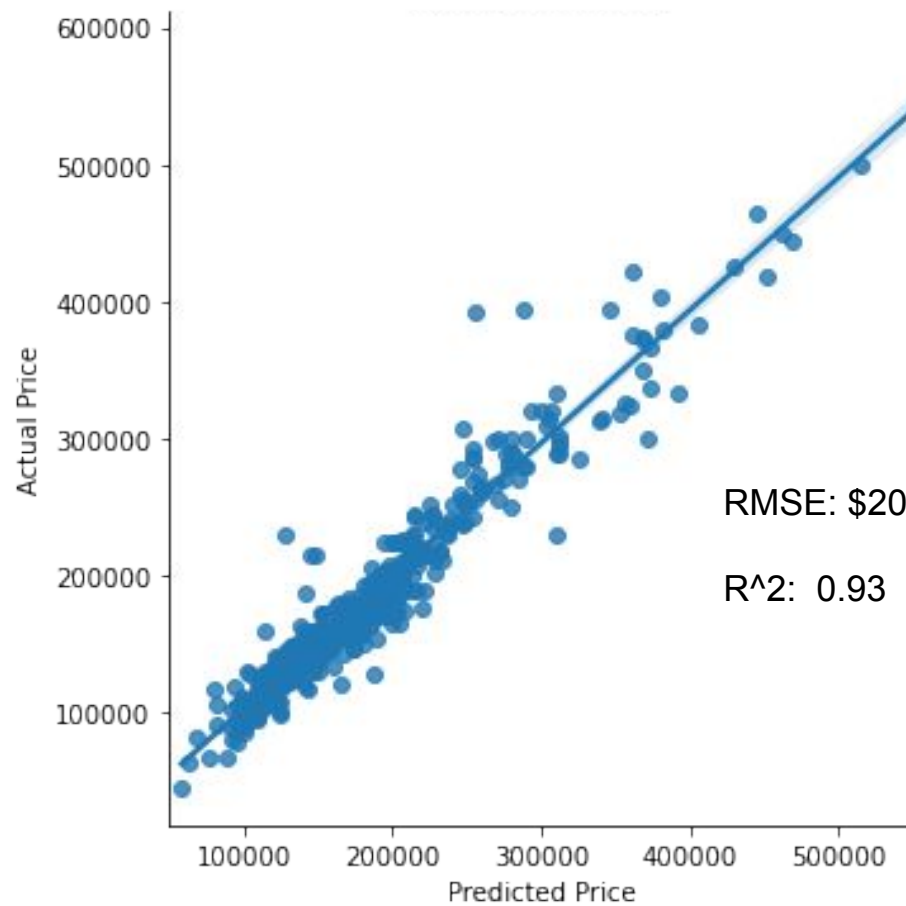
- Data
  - Home appraisal checklist for Ames, Iowa
- Measuring Success
  - Accuracy
    - How much variation in a home's sale price can my model account for?
    - What is the standard error?
  - Efficiency



## Model Tuning

- Iterative process
- Created 6 models in all
  - Each model accounted for the unique features differently
- Trade-off between accuracy and performance

Production Model





## Conclusions

- My production model is a substantial asset to home appraisers
- Important caveats:
  - Appraisers have to be using the same home appraisal checklist
  - This model was designed specifically for the city of Ames, Iowa.