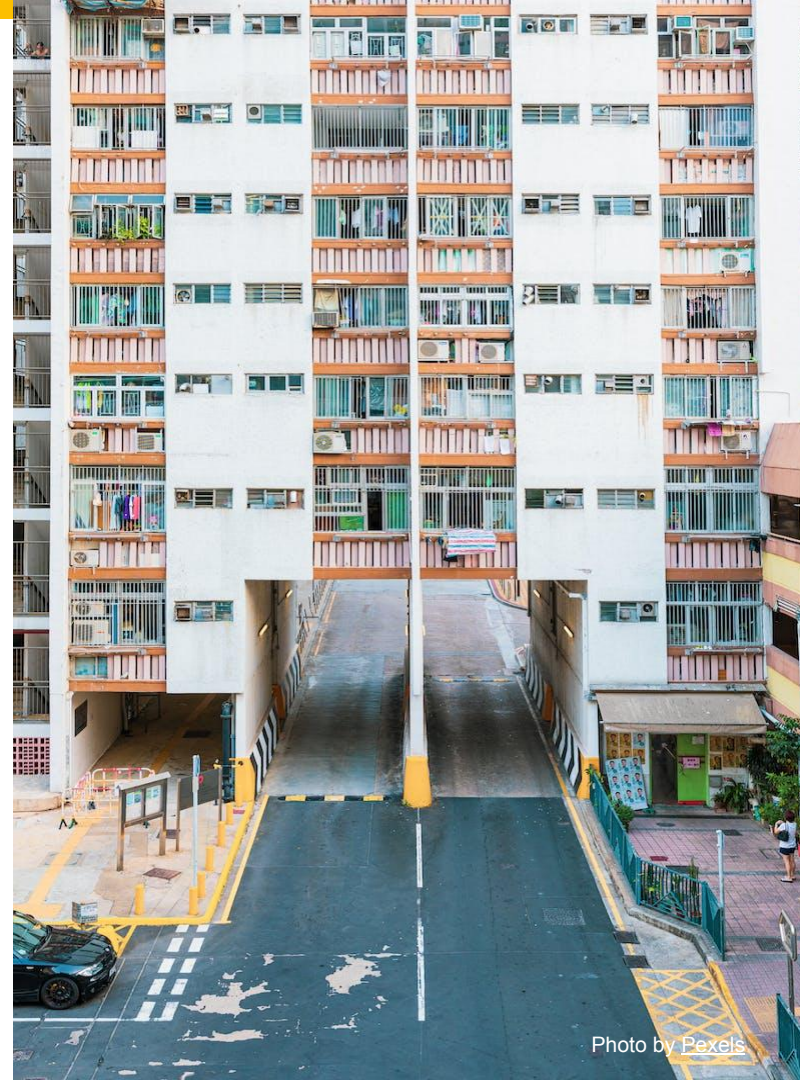


# **Modeling Home Prices in Ames, Iowa**

For IOU Real Estate Fund - Iowa  
By Saamir Shamsie

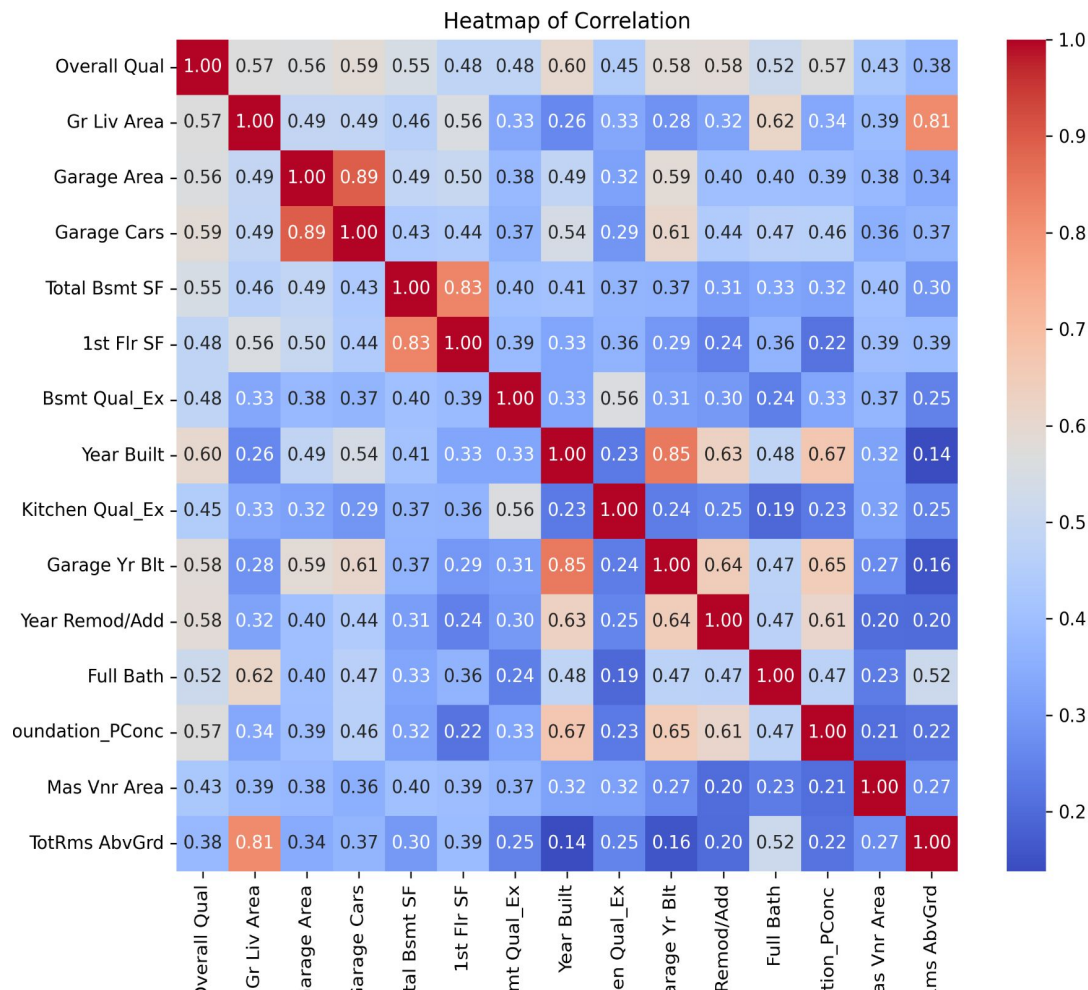
# Agenda

- Key features From the Data
- Data Visualisations and Interpretations
- Model Performance

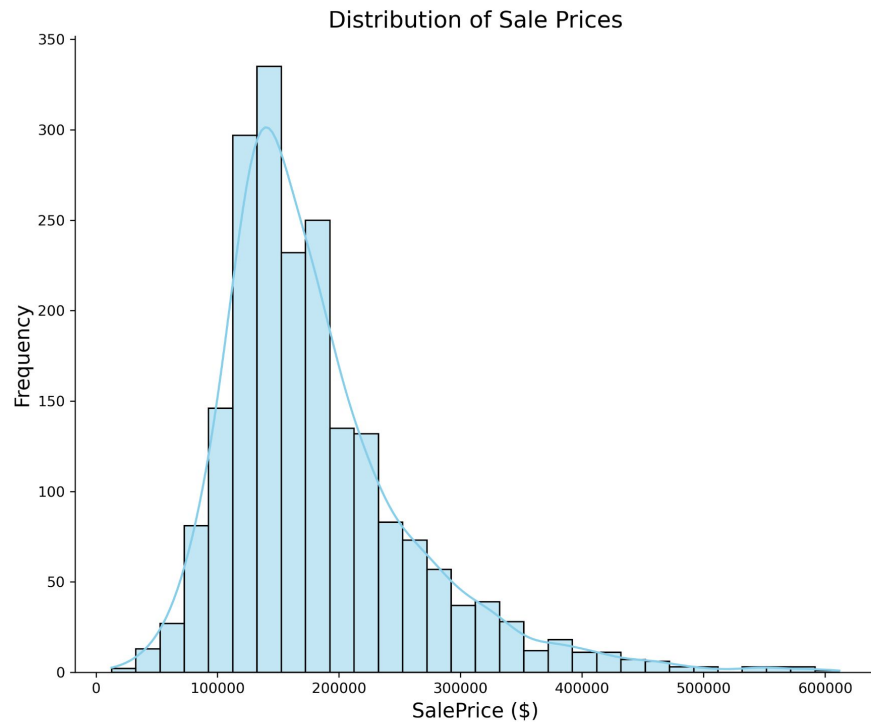


# Key Features

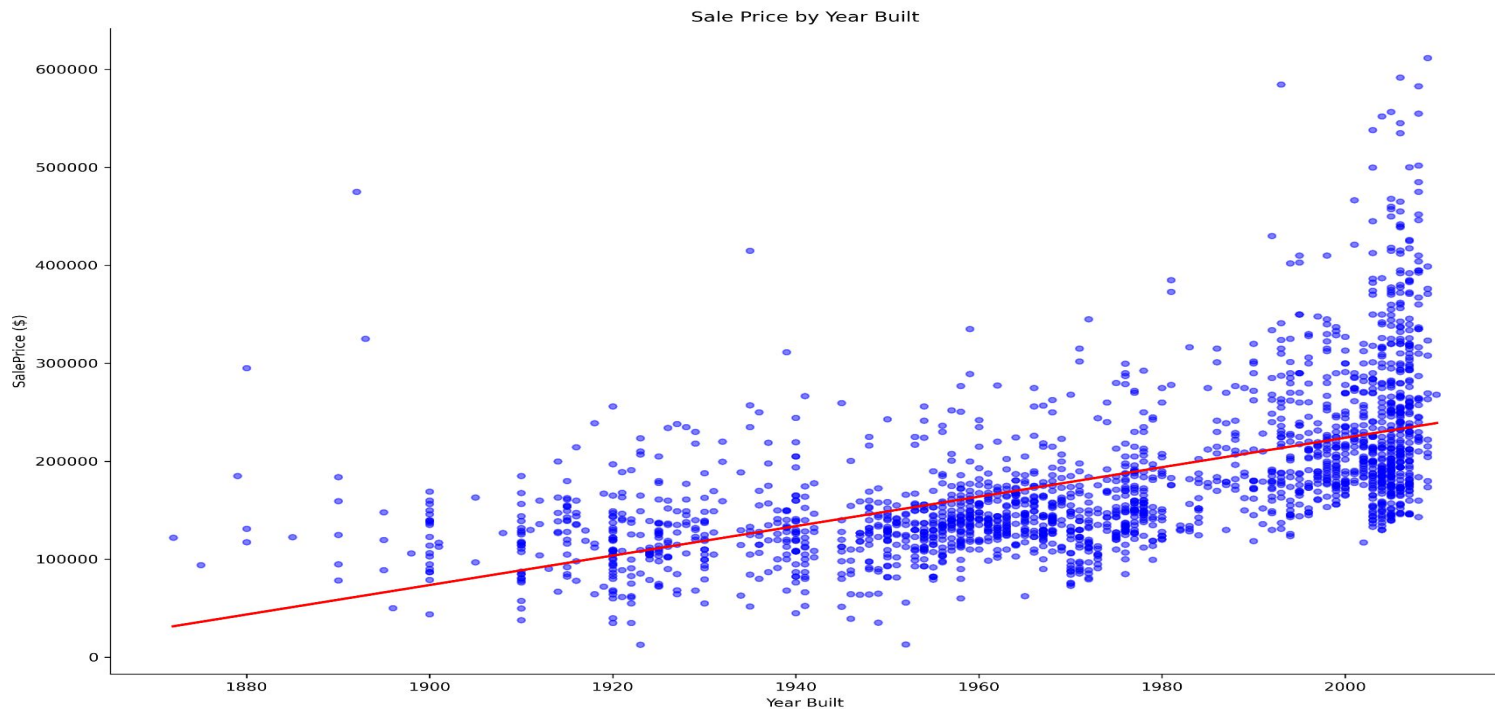
- The Dataset provided some correlations with Sale Price:
  - Overall Quality
  - Total Living Area
  - Number of Car Garage
  - Total Bathrooms
- These provide a basis from which we can further investigate Sale Prices



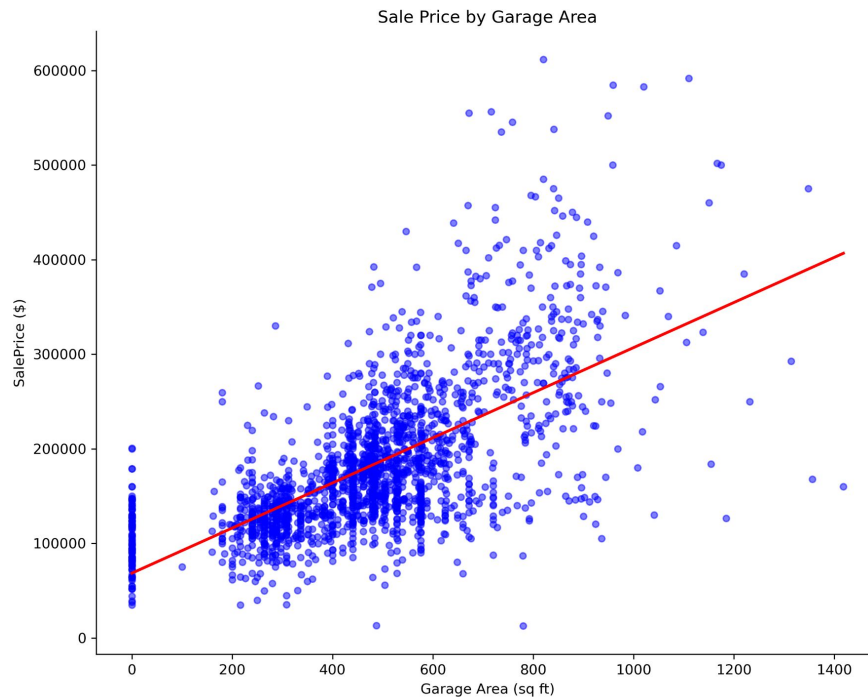
# Key Visualizations



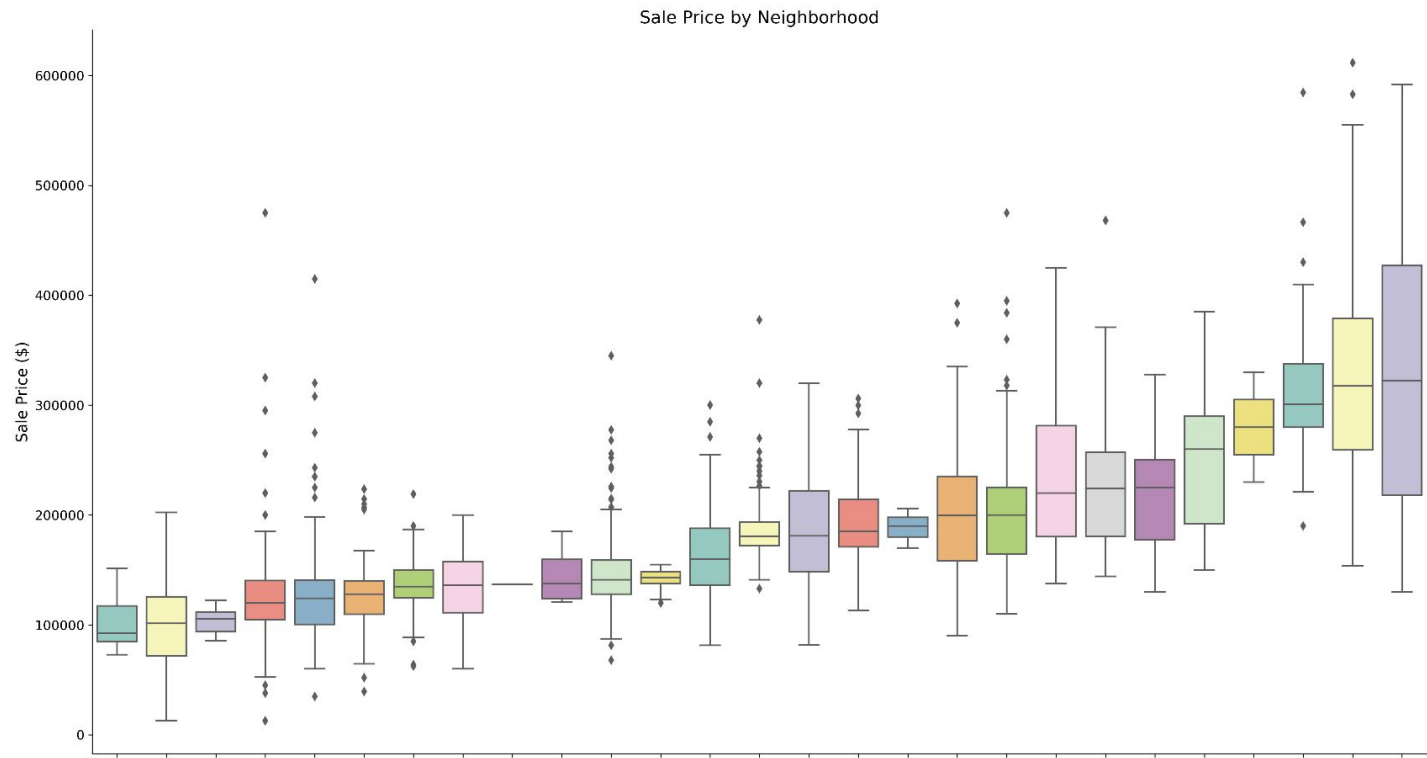
# Key Visualizations



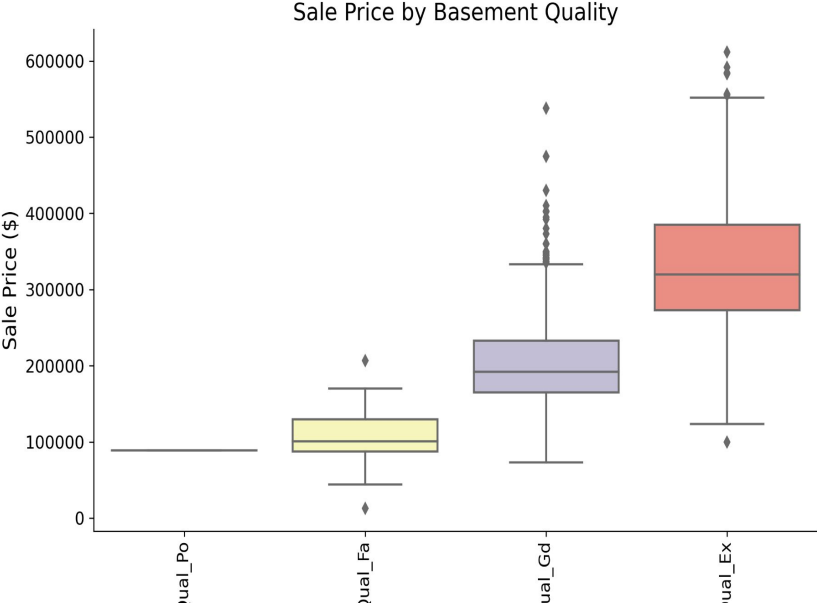
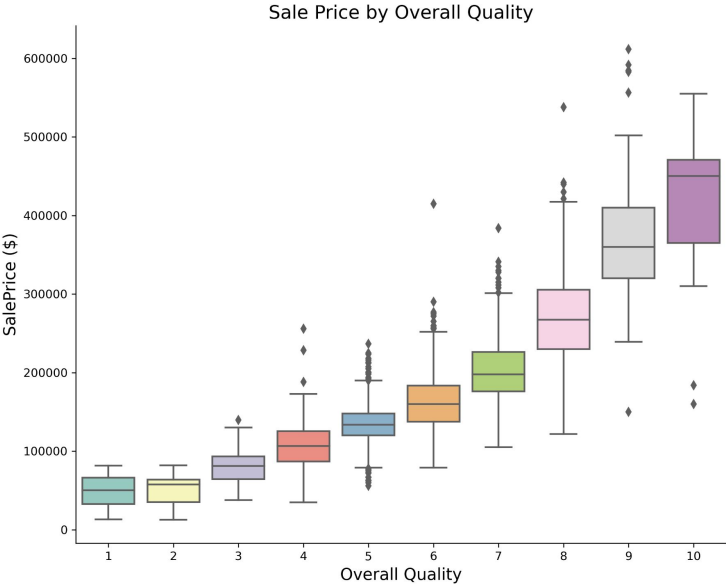
# Key Visualizations



# Key Visualizations



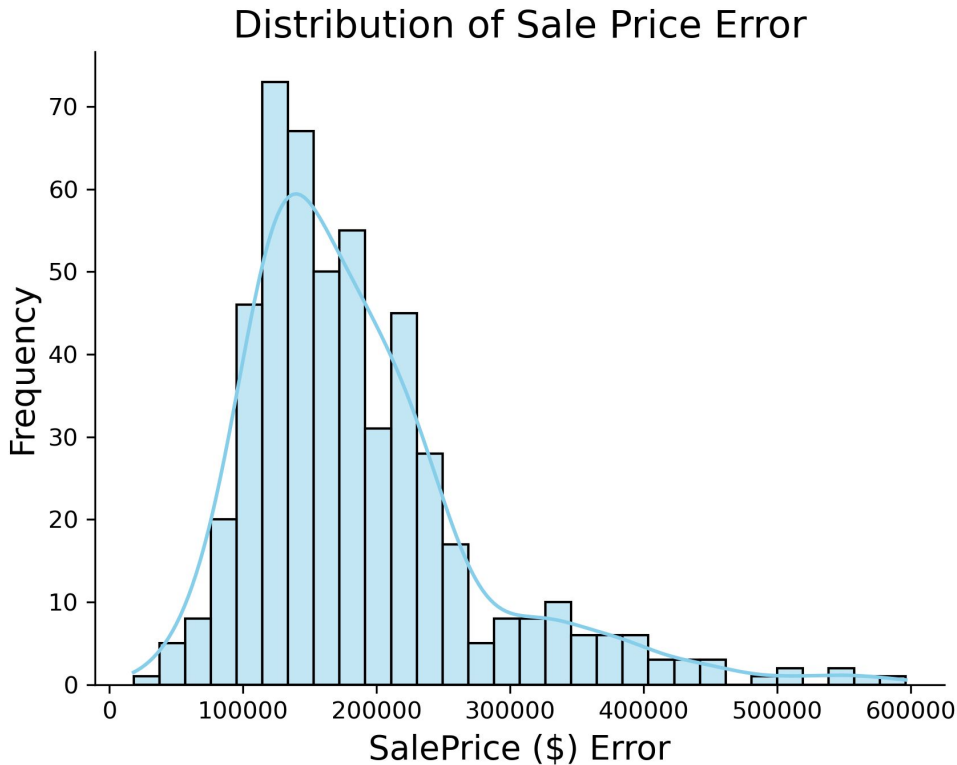
# Key Visualizations





# Model Performance

- It is well suited to new data and can account for 90-95% of the variability in house prices
- The average error in predictions are \$19,500 - \$20,500
- The model uses an integrated cross validated Ridge Regression to predict home prices for more robust performance.



**Thank you!**