

The background features a complex network of thin grey lines and dots, forming a web-like structure. Scattered throughout are various triangles of different sizes and orientations, some with solid black dots at their vertices. The overall aesthetic is minimalist and technical, suggesting a data-driven or mathematical theme.

Predicting Housing Prices

Jose Delgadillo

CONTENTS OF THIS TEMPLATE

1. Problem Statement
2. Dataset
3. Techniques and Procedures
4. Findings

You can delete this slide when you're done editing the presentation.



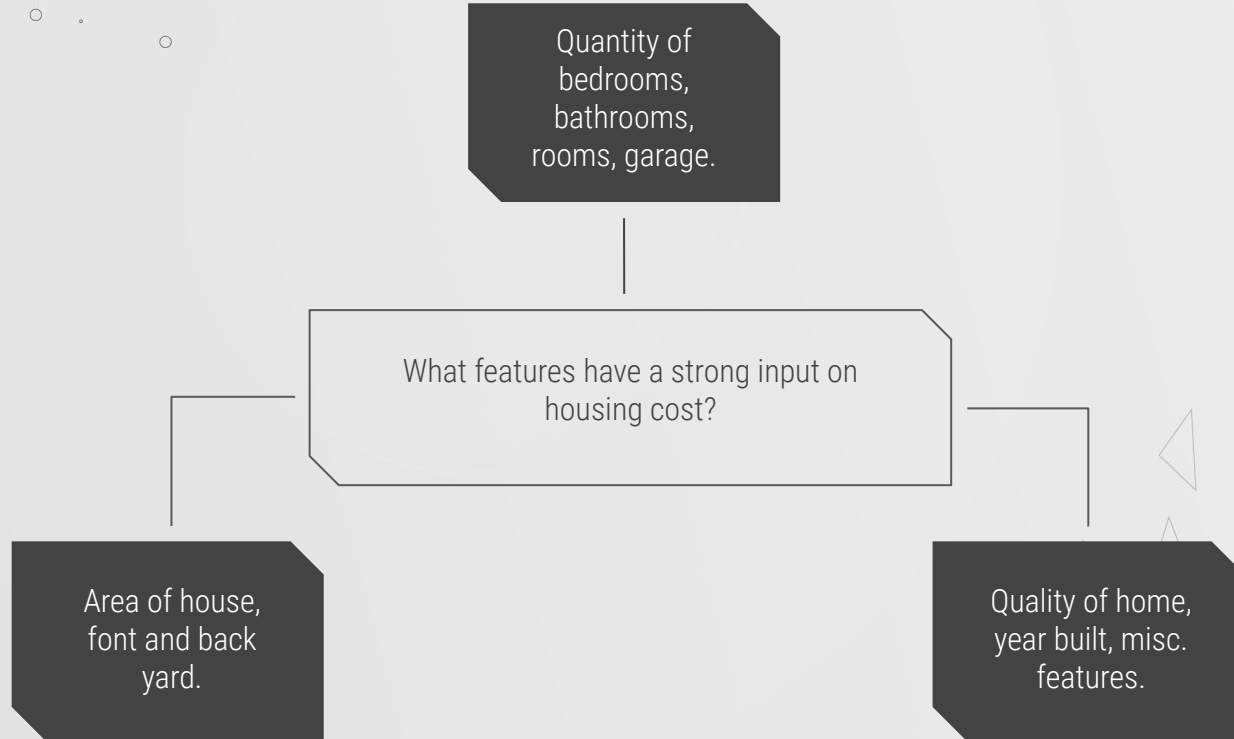


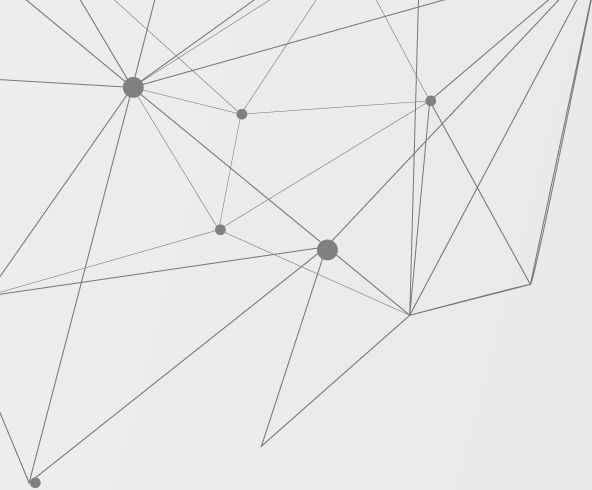
PROBLEM STATEMENT

Do the features of a house have an
influence on the cost?



What features are important?





DATA SOURCES

Our data set was from Ames Housing Dataset from Ames, Iowa. This was a detailed and robust dataset with over 70 columns of different features related to
_____ houses.

TECHNIQUES AND PROCEDURES



Data Cleaning

Identifying missing values from the dataset, modeling the data and features to what best fits the model.

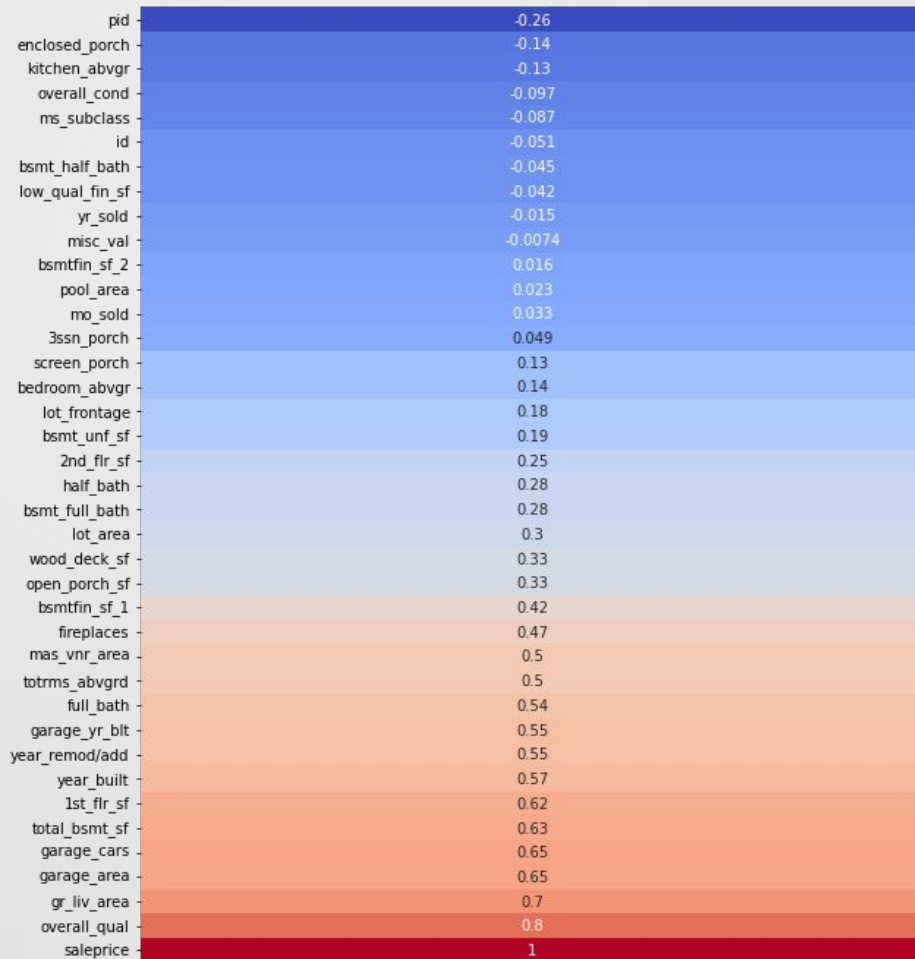
Deciding what features to keep for the model by determining what features had strong correlation by using charts and graphs

Analysis



Feature selection

Keeping features that showed strong relation with sales price

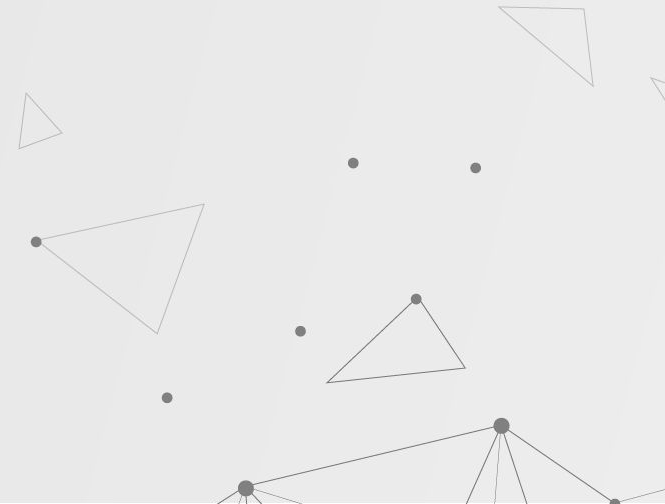


saleprice

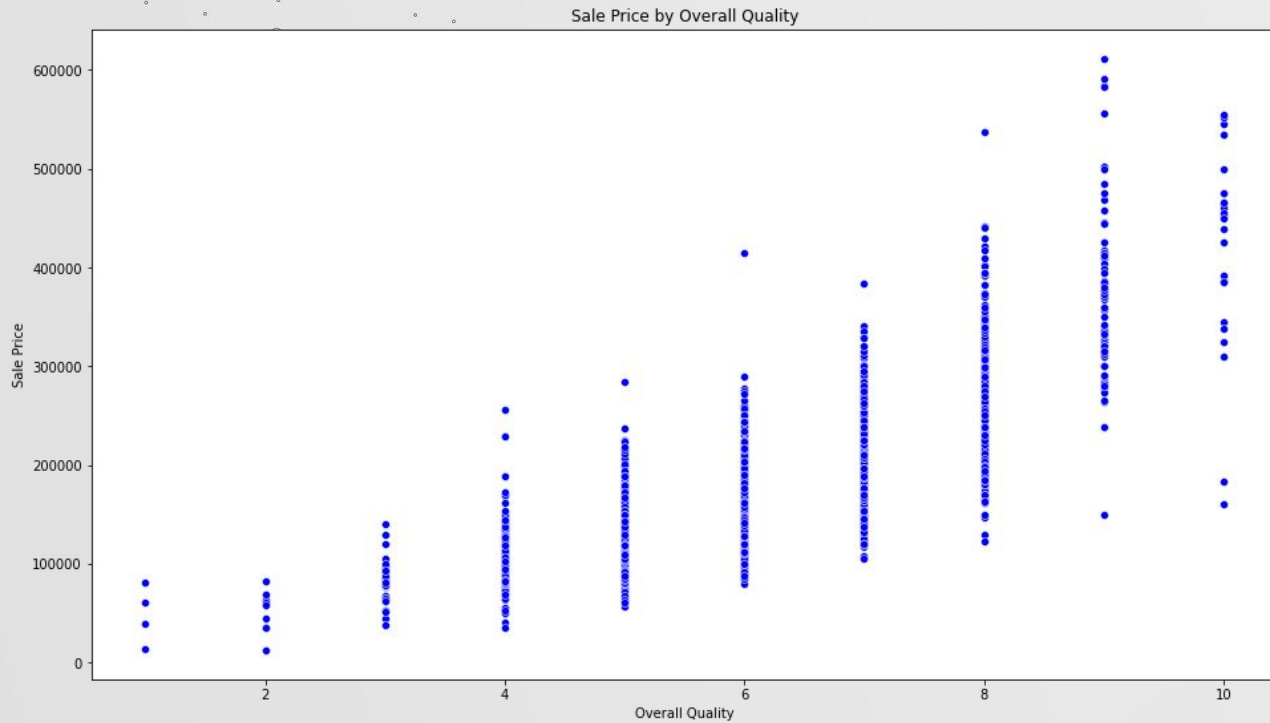


Heatmap

This model is comparing the features the houses have to the sale price to be able to determine what qualities could have a bigger impact on the sale price.

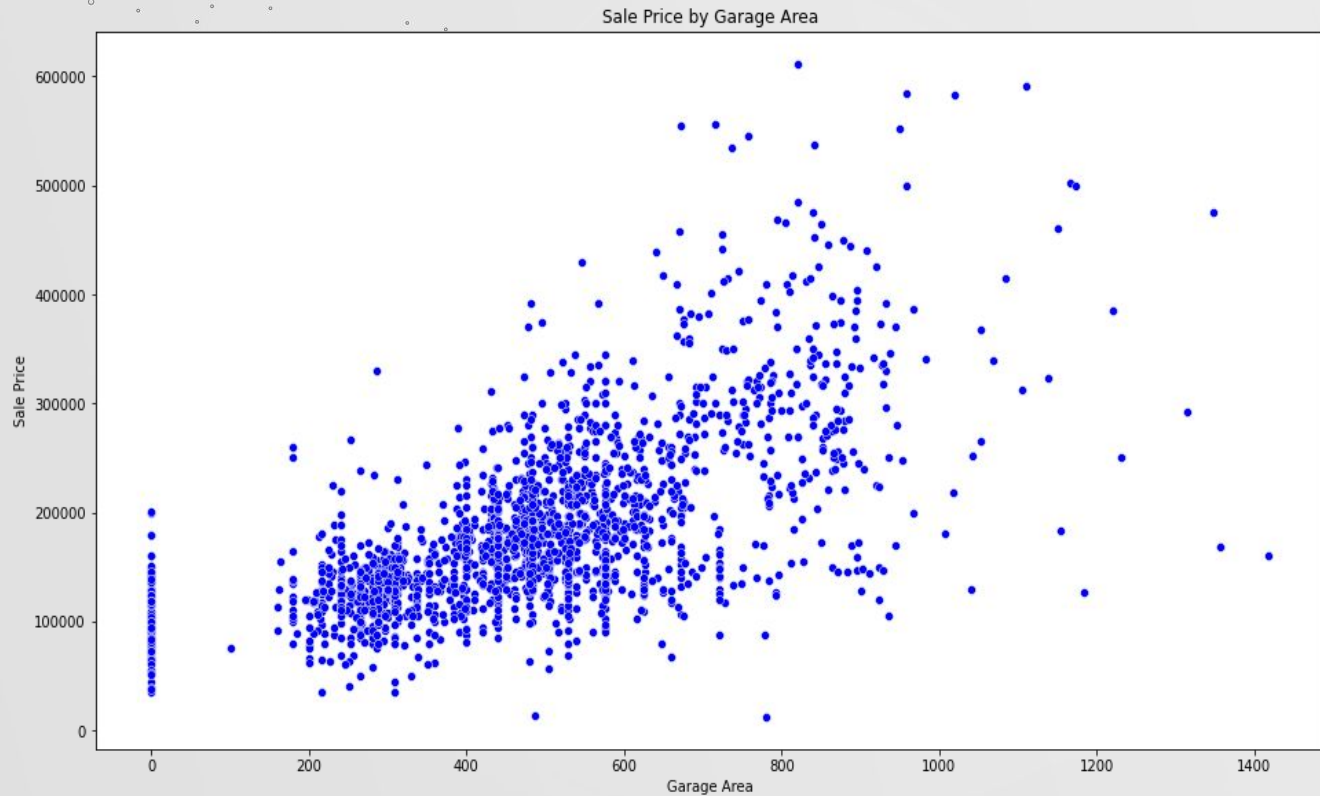


Plots



**Overall
Quality**

Plots



**Gross Living
Area**





Model Predictions

After modeling and testing we ended up with a 86% r^2 score
and a MSE of \$15326.

FINDINGS

With the models and analysis done we were able to determine that the features with the greatest impact to price were gross living area and overall quality of the home. Other major qualities mainly related to room counts and year built.

In order to increase house prices for sellers we would want to focus on those areas with high impact on price.

