Predicting Housing Prices

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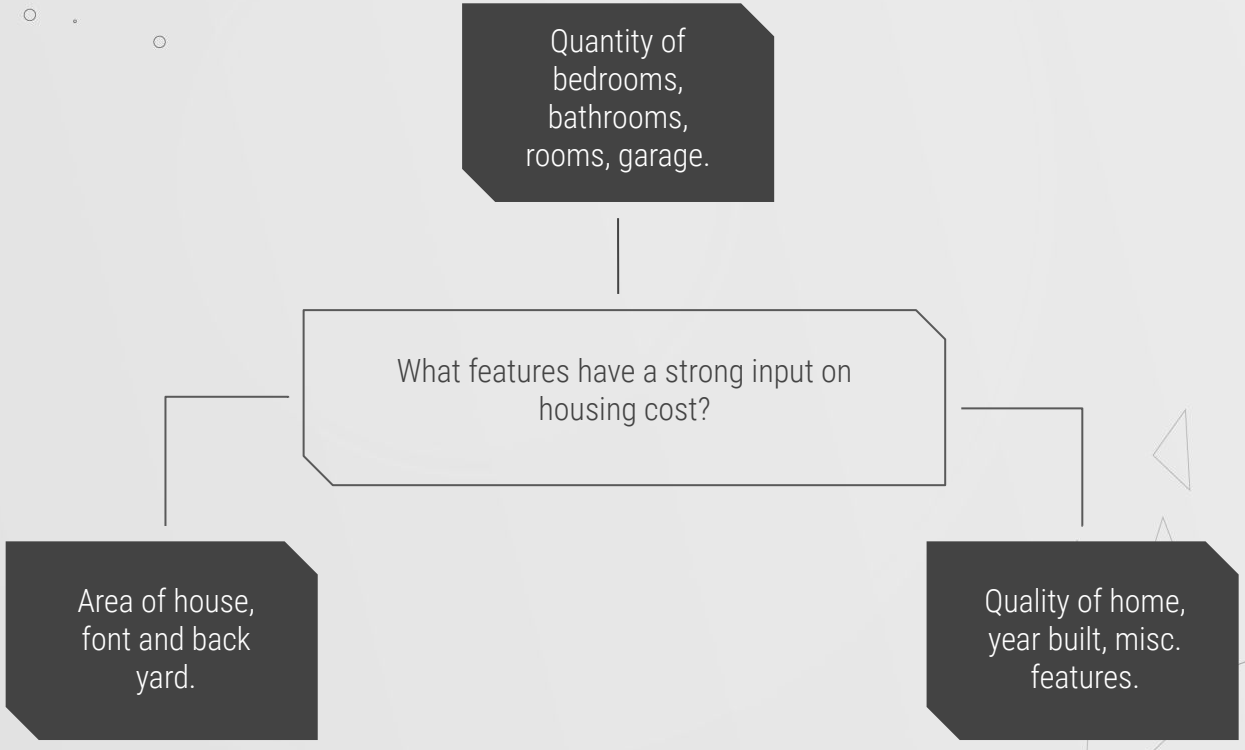
PROBLEM STATEMENT

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

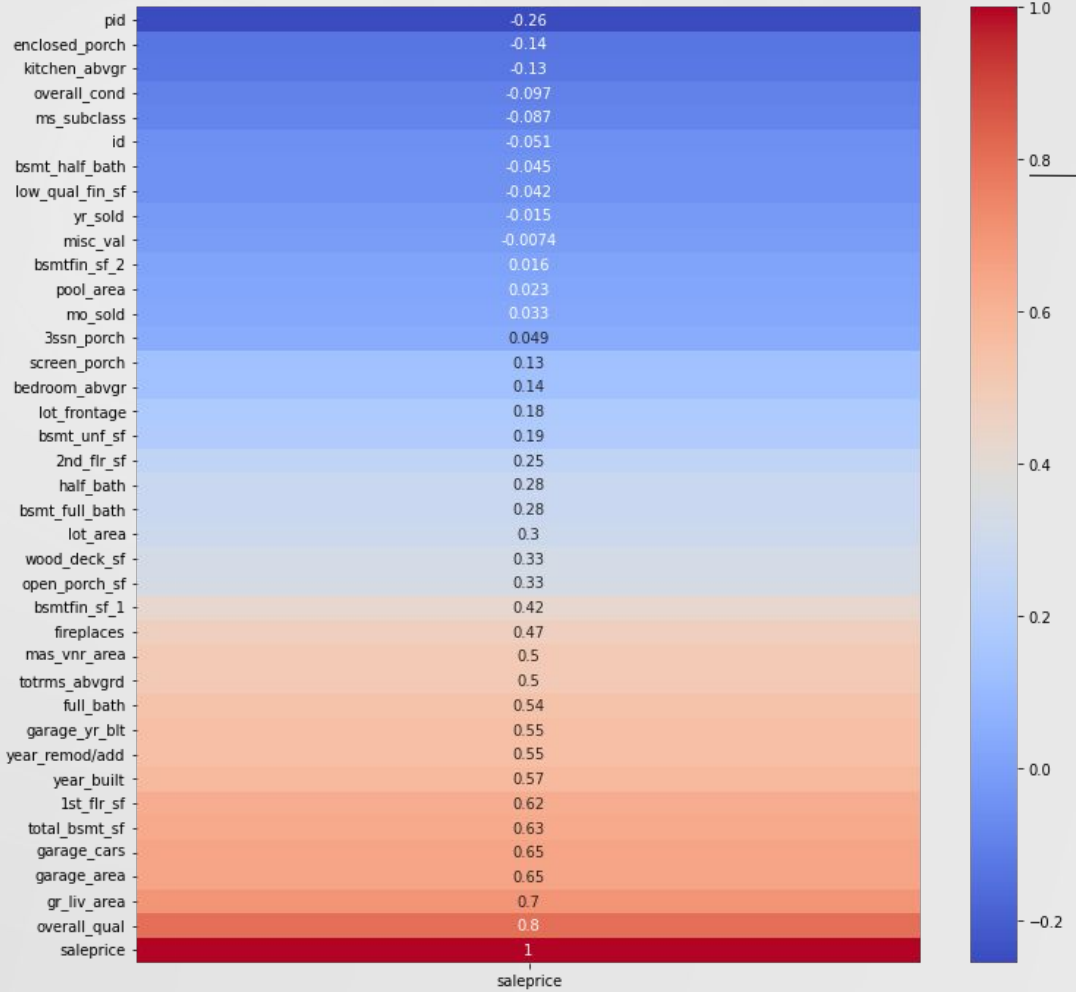
Identifying missing values from the dataset, modeling the data and features to what best fits the model.

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

Analysis

Feature selection

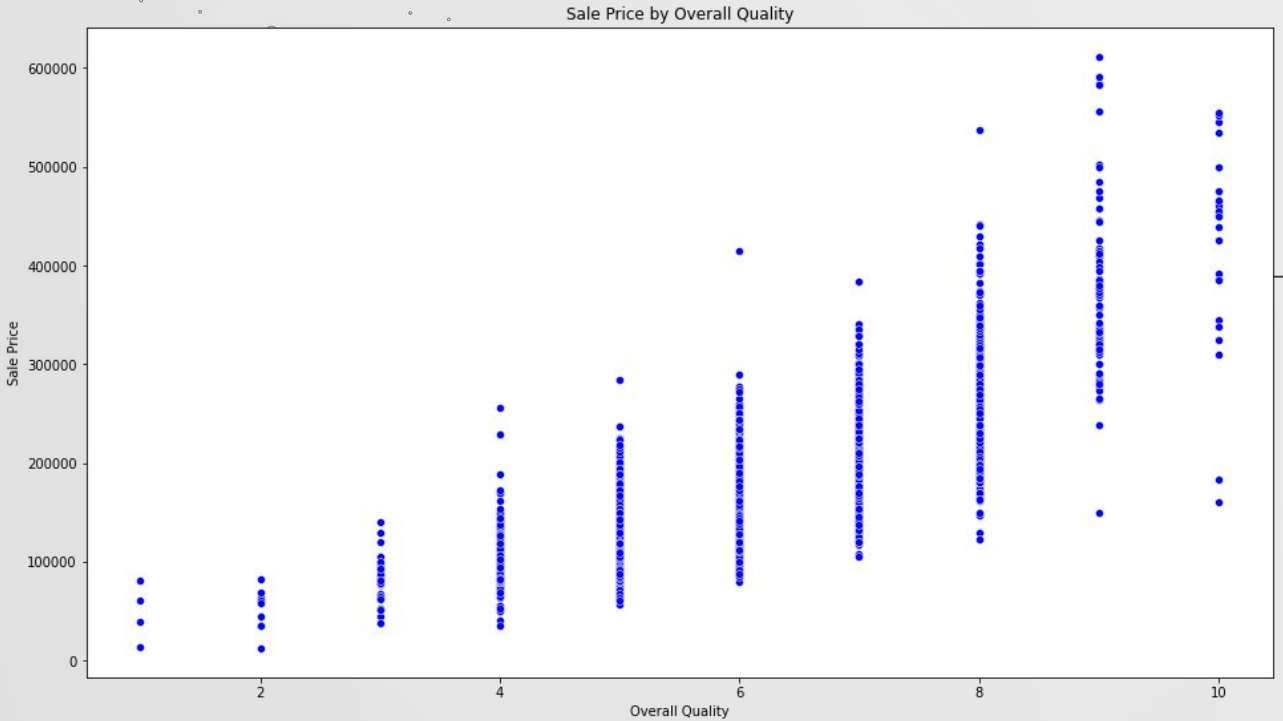
Keeping features that showed strong relation with sales price



Heatmap

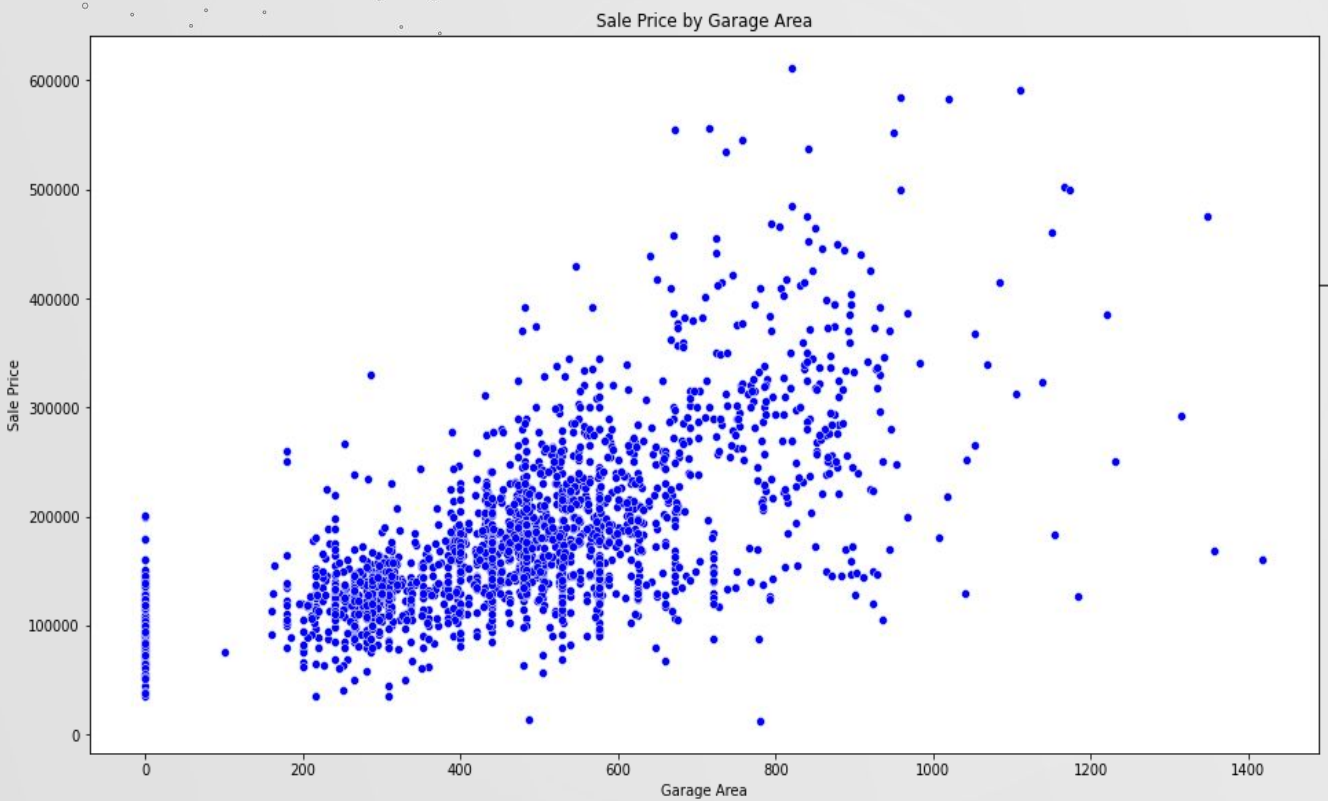
This model is comparing the features the houses have to the sale price to be able to determining what qualities could have a bigger impact on the sale price.

Plots



Overall Quality

Plots



Gross Living Area

Model Predictions

After modeling and testing we ended up with a 86% r2 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.