

Ames Housing Price Prediction

By Jay Li 10/20/2021



What feature is most important for house buyers to consider?

Problem Statement

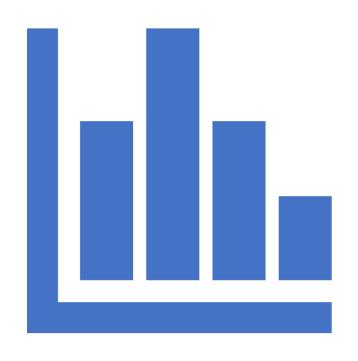


What feature add the most value to a home.



What can home seller do to improve home values.

Understanding the Data



- Total Features
- Numerical Features
 - Continuous Variables
 - Discrete Variable
- Categorical Variables

Feature Engineer The following feature are combined

Combined	Feature in Original Data				
FloorSqft	1st Flr SF	2nd Flr SF			
Total Bath	Half Bath	Bsmt Half Bath	Bsmt Full Bath	Full Bath	
total age	Yr Sold	Year Built			
remod age	Yr Sold	Year Remod/Add			
garage age	Yr Sold	Garage Yr Blt			
Total Porch SF	3Ssn Porch	Enclosed Porch	Open Porch SF	Screen Porch	Wood Deck SF

Ordinal Variables

- #Ex Excellent
- #Gd Good
- #TA Typical
- #Fa Fair
- #Po Poor
- #NA No

Kitchen Qual

Exter Qual

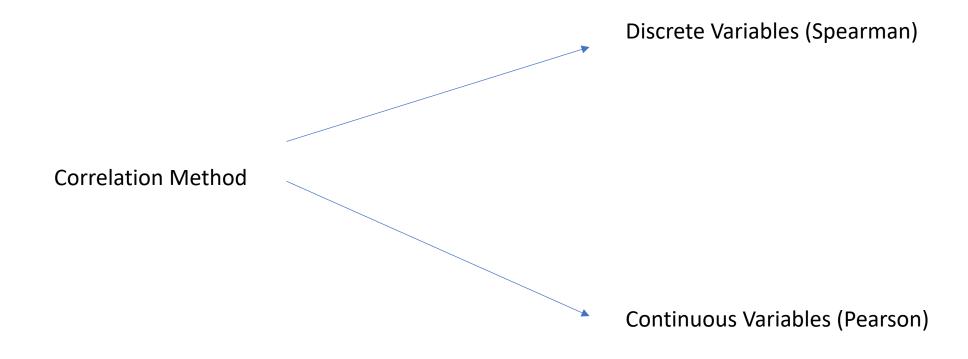
Exter Cond

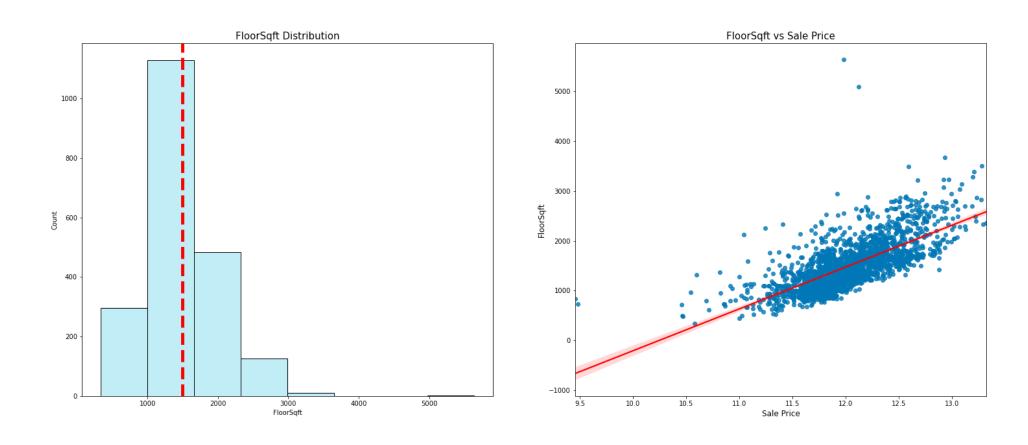
Garage Qual

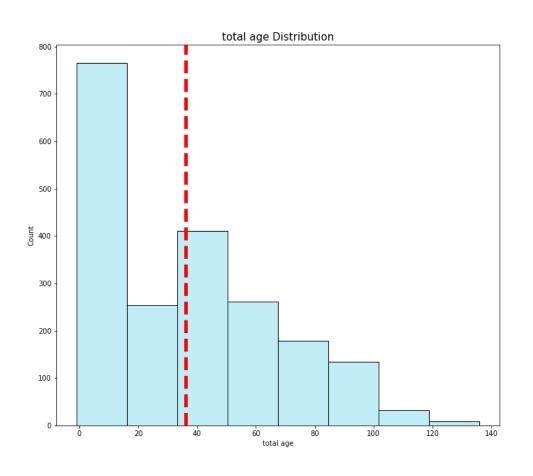
Garage Cond

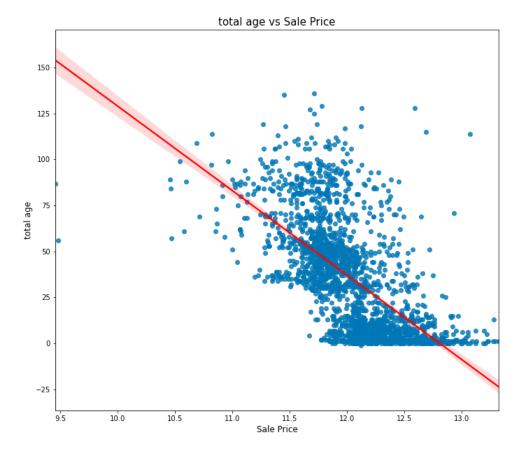
Bsmt Cond

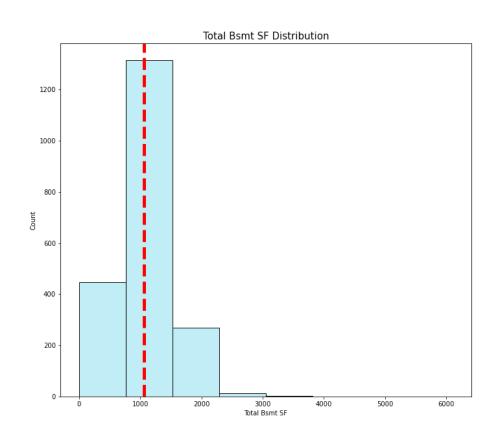
Bsmt Qual

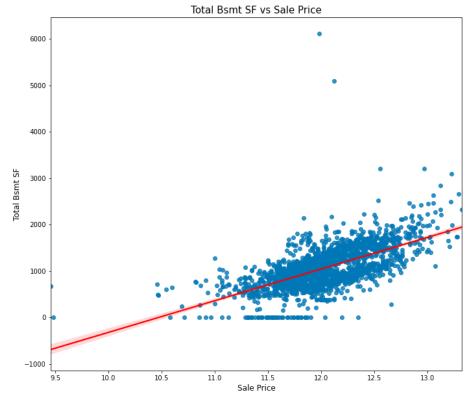


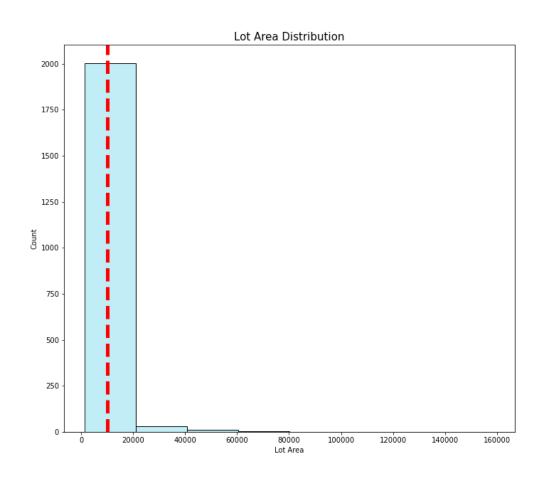


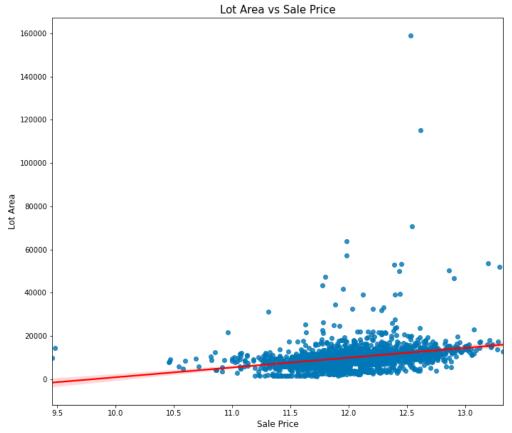


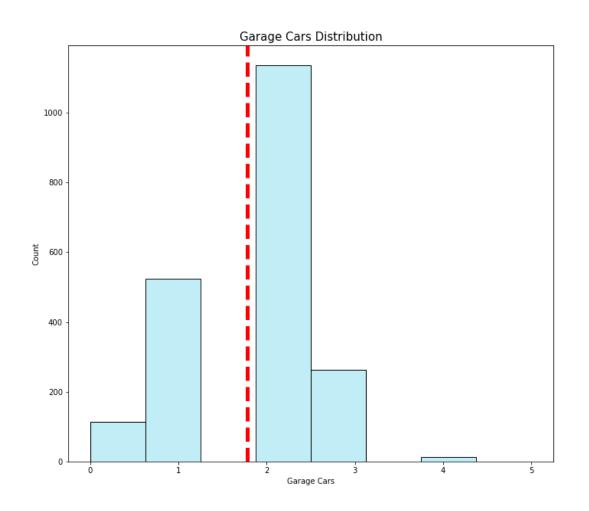




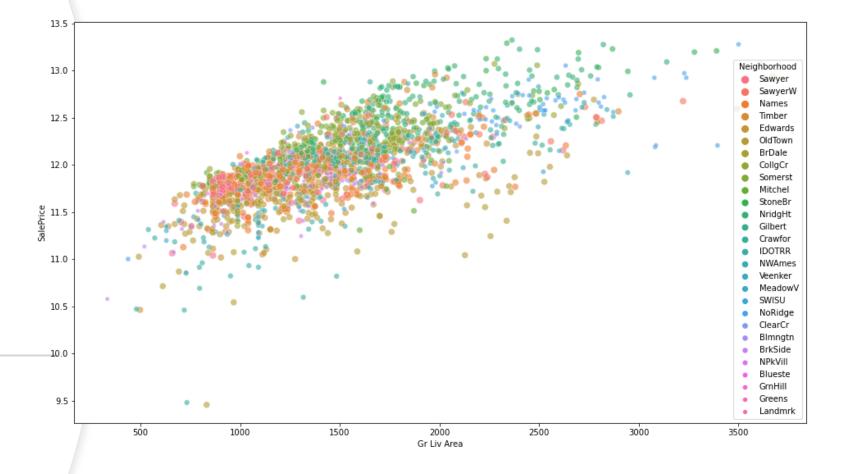


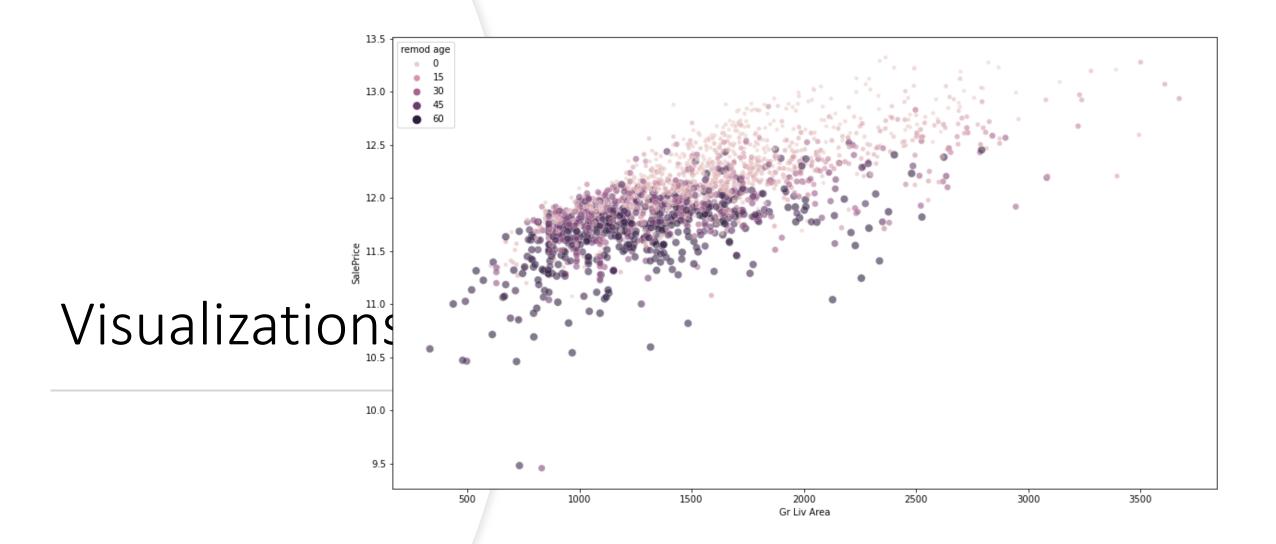






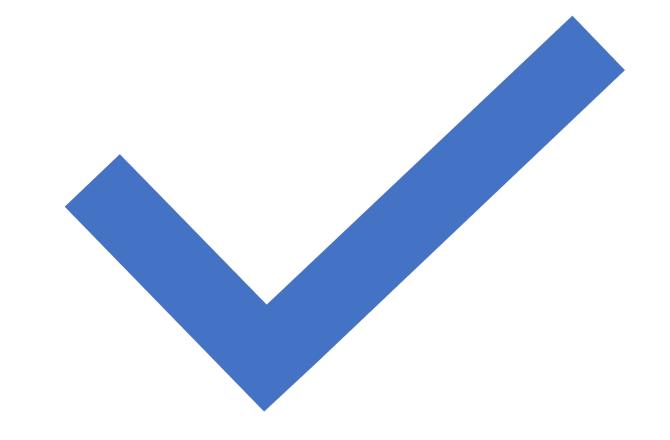






Workflow For Model Selection

Linear Regression Model Lasso Regression Model Ridge Regression Model



Workflow For Model Selection

