



Asia Roy, Data Scientist

We pride ourselves in the fact that we have true sales success in our areas and the results are WHERE IT COUNTS





Using Data to solve our problem



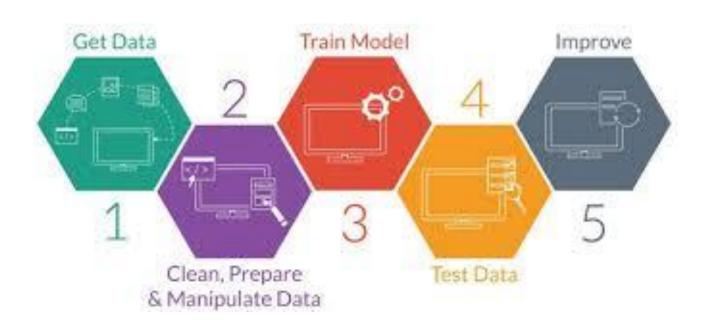
Source: Ames, Iowa Assessors Office

Assessment of over 2,900 Individual residential properties sold in Ames, Iowa from 2006 to 2010.

Goal:

What factors affect housing prices the most in Ames, IA?

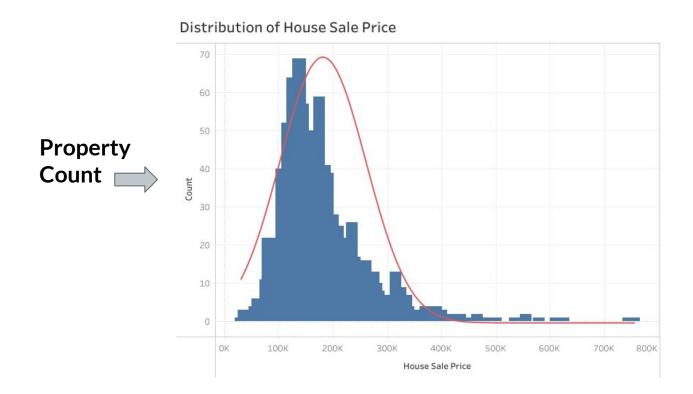
The Data Science Workflow



AVG Sale Price



Sales Price Distribution





- Asymmetrical, right-skewed.
- Take the log of sale price, necessary to change the shape for our model.

90% of the change in sale price for houses in Ames can be explained by 15 features

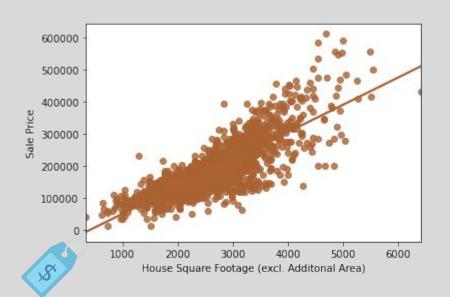


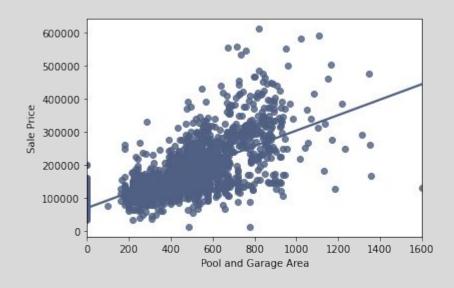
- As a realtor, it is important to know these features, in order to assist clients in allocating funds to improve the value of their homes.
- Most clients do not want to complete 15
 repairs or even have the money or time
 because time is crucial in the selling market

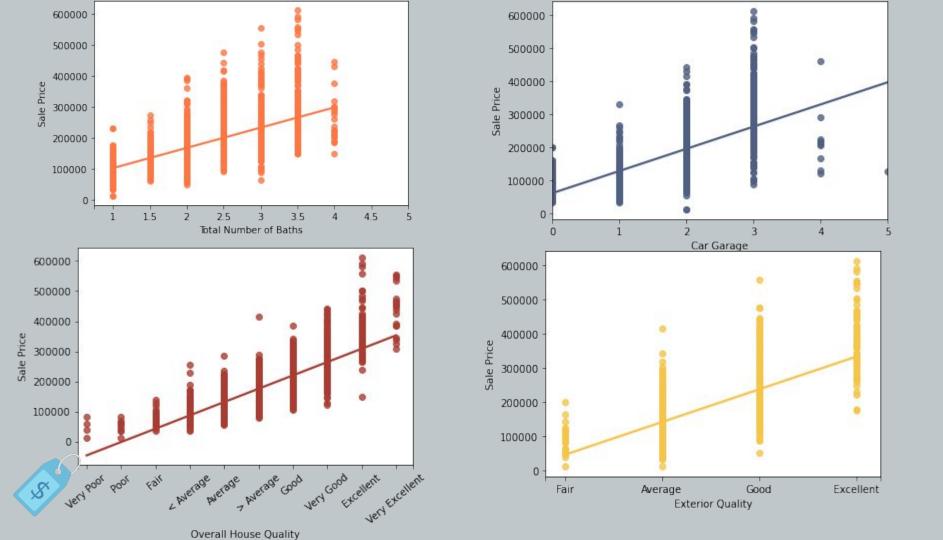
Features that directly affect the price of a home



Correlation between Sale Prices &



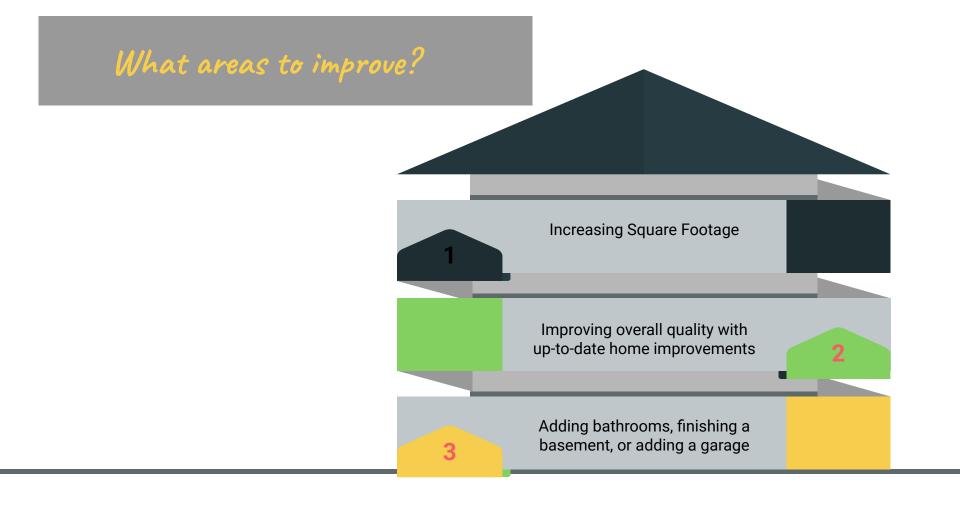




AS REALTORS, WE RECOGNIZE THAT THERE ARE SOME HOUSING FACTORS, THAT ARE FIXED SUCH AS:

- NEIGHBORHOOD/LOCATION IN AMES
- HOME TYPE
- YEAR BUILT





Questions?