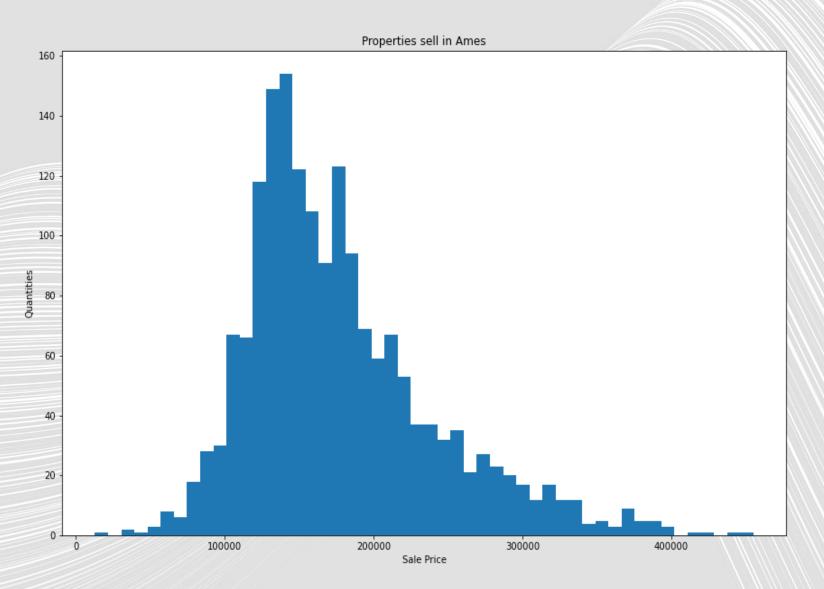


AMES DATA | DISTRIBUTION



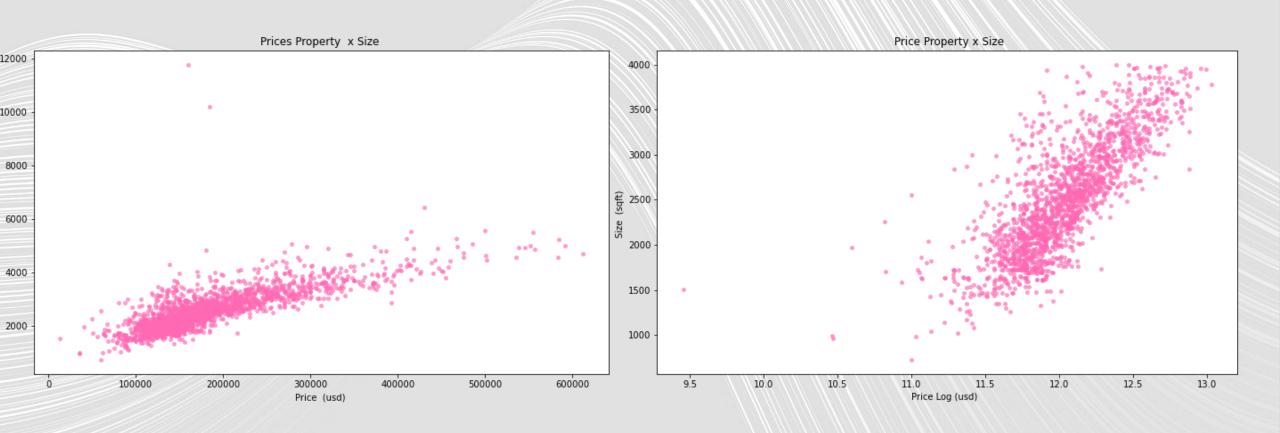
Sales:

Histogram of sales properties for 2006 - 2010

AMES DATA | OUTLIERS

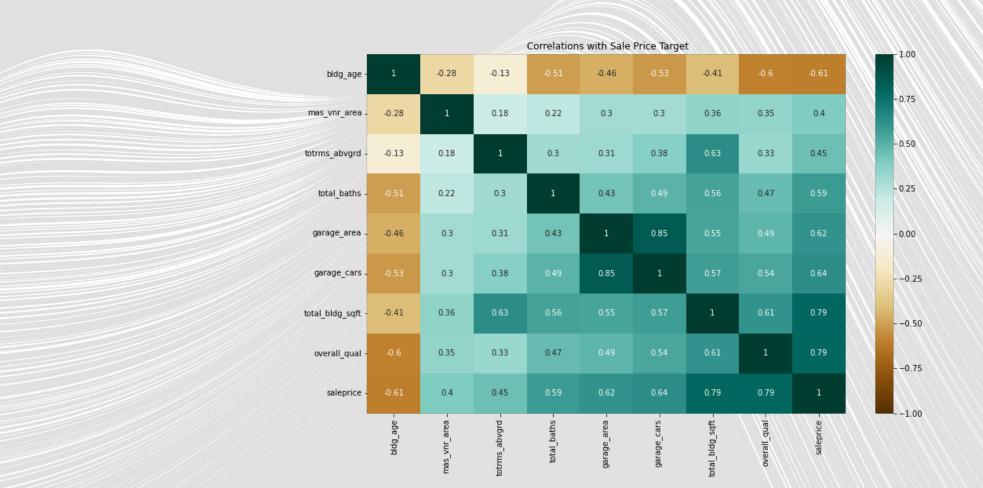
Outliers:

Behavior of sales' scatter plot after handling outliers



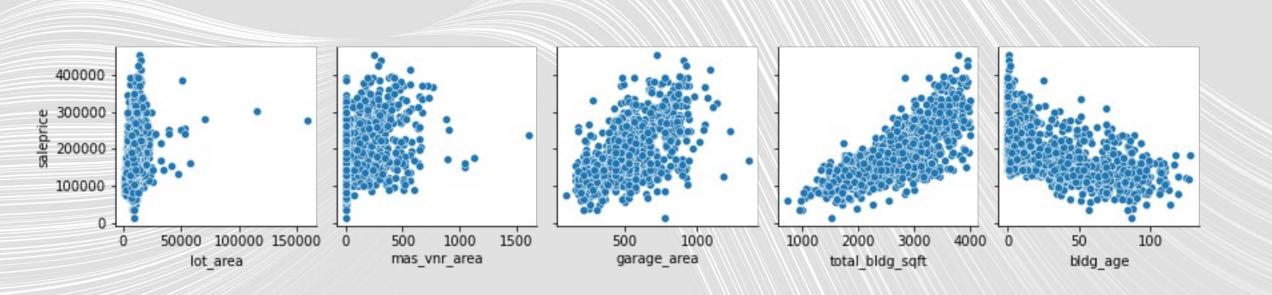
AMES DATA | CORRELATIONS

Features with strong correlation between sale price



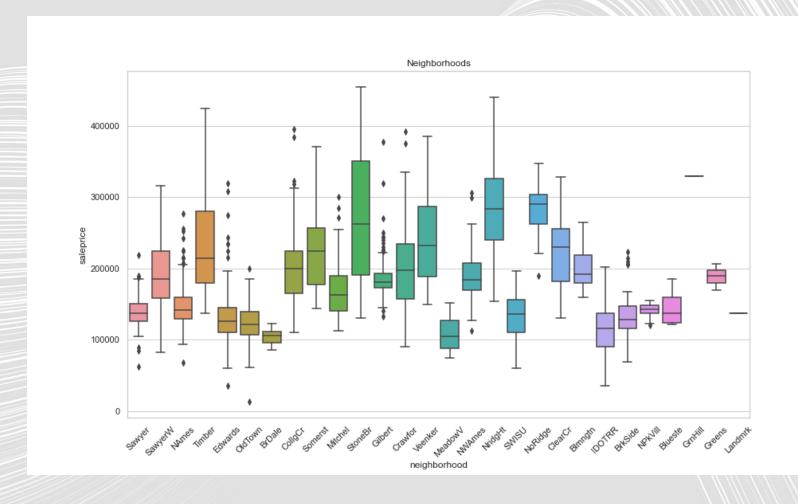
AMES DATA | CORRELATIONS

Features with strong correlation between sale price



AMES DATA | CATEGORICAL

Ames' neighborhoods sales in box plots



Neighborhood Somerst Neighborhood NridgHt Neighborhood NoRidge Neighborhood Crawfor

AMES DATA | CONCLUSIONS

Model Metrics OLS:

MAE: 14809.870050728296 MSE: 416872303.5136811 RMSE: 20417.450955339187

R2: 0.8598253241533164

Training R2: 0.8598253241533164
Validation R2: 0.8422733142022257
Difference: 0.01755200995109063

85.98% of the variance/variability of our sale price, Can be explained by the features used to build our model.

AMES DATA | INFERENCES

Some coefficients:

Total baths: 6755.011

Total building sqft: 20466.00

Total rooms above ground: 649.45

Garage cars: 3048.89

Lot area: 4816.96

Neighborhood Somerst: 1466.12 Neighborhood NridgHt: 3718.50 Neighborhood NoRidge: 2380.81 Neighborhood Crawfor: 4918.21

AMES DATA CONCLUSIONS | RECOMMENDATIONS

- After analyzing the data, we can see that some variables are more important than
 others in determining the value of real estate prices. For example, the general
 condition of the property carries more weight than adding a few feet to the size of
 the property.
- Another conclusion that we can consider is that if you want to add value to the property, it will be more efficient to include one more bathroom than a parking space.