

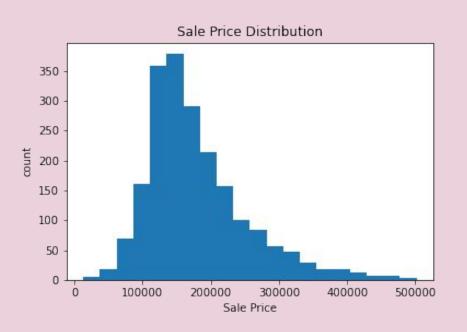
The Data

- Two datasets for Training and Test that need to be combined into 1.
- Train consisted of 2051 rows and 82 columns.
- Test consisted of 878 rows and 81 columns.
- The features consist of 23 nominal, 23 ordinal, 14 discrete, and 20 continuous variables, in addition to 2 ID variables

Visualize Distributions



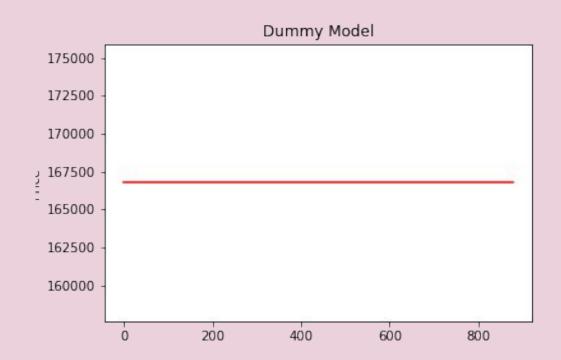
Feature Engineering



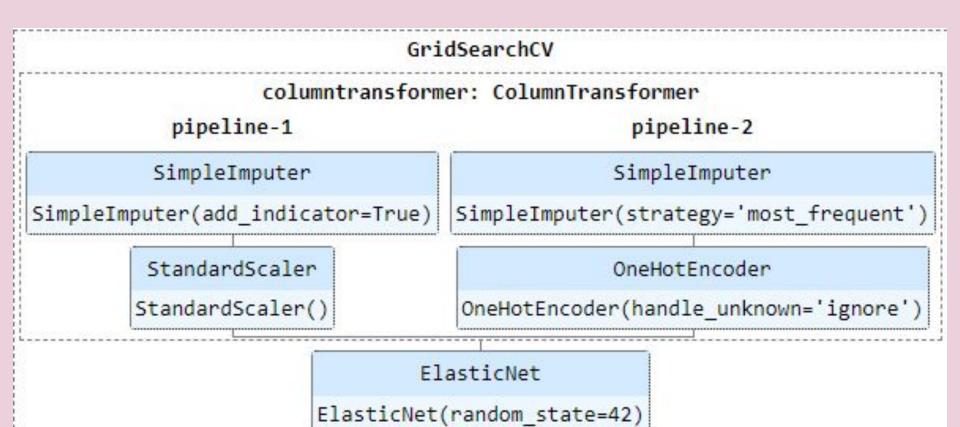


Baseline Model

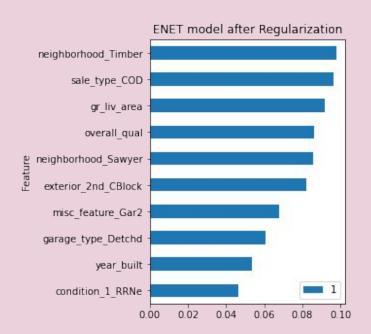
Dummy RMSE: **79050.31**

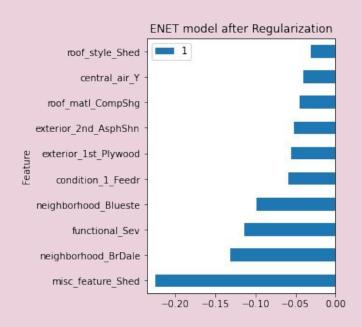


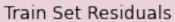
Pipeline Structure

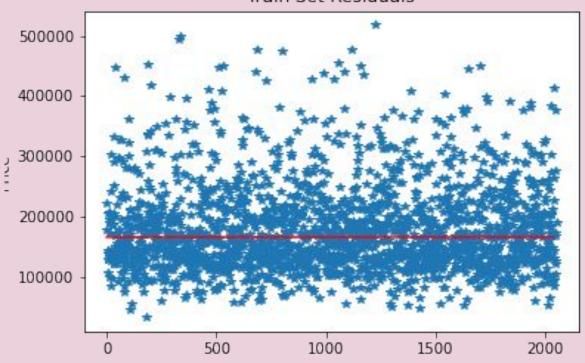


Feature Importance









Recommendations

- -LOCATION, LOCATION
- -Overall Quality and Gross Living Area
- -Remove the shed from your property.
- Sawyer and Timberland are the best neighborhoods to live in.
- Avoid Briardale and Bluestem neighborhoods.

What's Next?

- Remove all foreclosures from dataset
- Impute constant values for most categorical features missing values
- Ensemble multiple models together to weight predictions.