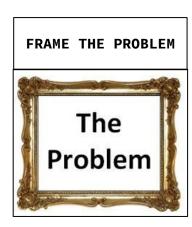
Ames Housing Price Predictor

Jack R Bibi GA:DSI-CC7-NYC-GAUSS

Methodology

Of Our Data Analysis



Problem Statement

We are trying to make a price prediction template that can accurately predict the price of a house when given it's features.

Methodology

Of Our Data Analysis

CLEAN DATA





GATHER DATA



ANALYZE DATA



FEATURE ENGINEERING



COLUMNS

$$80$$
--> Feature --> 220 +

Methodology

Of Our Data Analysis

CLEAN DATA





GATHER DATA



ANALYZE DATA



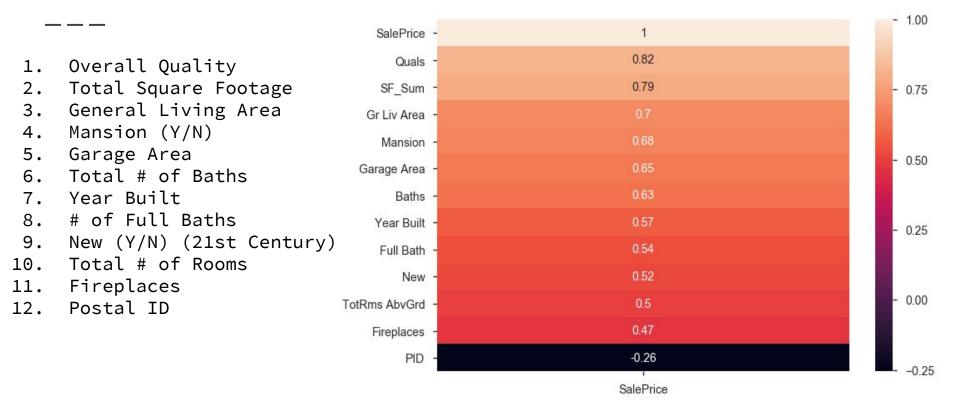
FEATURE ENGINEERING



EXPLORATORY DATA ANALYSIS



The Chosen Columns



19 Different Models

STANDARD Linear scaler Regression RIDGE power **Transform** Lasso POLYNOMIAL **ELASTIC NET Features**

CONCLUSION

Chosen Model

Standard Scaler, Polynomial Features, Ridge

• Test RMSE: 21,724

• Train RMSE: 22,544

• Test R²: .91

• Train R^2 : .91

• CV Score: .90

	Test RMSE	Train RMSE	Train RMSE % more		Test r2 Score	Train r2 Score
Standard Scaler, Polynomial Features and Ridge Model	21724.8	22544.5	-3.64% more	0.895614	0.912015	0.913025
Standard Scaler, Polynomial Features and Lasso Model	23118.8	22103.3	4.59% more	0.892348	0.911082	0.911714
Standard Scaler, Polynomial Features and Linear Regression	23841.3	21812.6	9.3% more	0.897592	0.919221	0.916851
Standard Scaler, Polynomial Features and Elastic Net Model	24091.8	21721.4	10.91% more	0.874178	0.903158	0.917513
Polynomial Features, Power Transform and Linear Regression	24797.4	23114.7	7.28% more	0.899088	0.893056	0.90533

Thank You

Questions?
