

AMES HOME-PRICE REPORT

CONSULTANT



PROJECT

STRENGTH AT THE HIGH-END AMES HOUSING MARKET

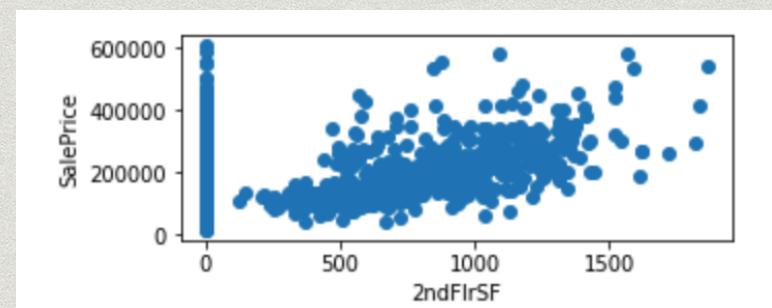
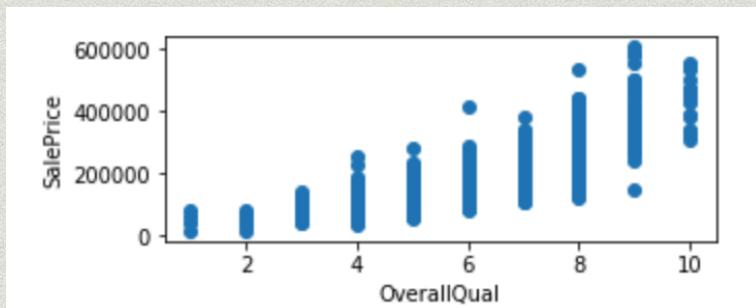
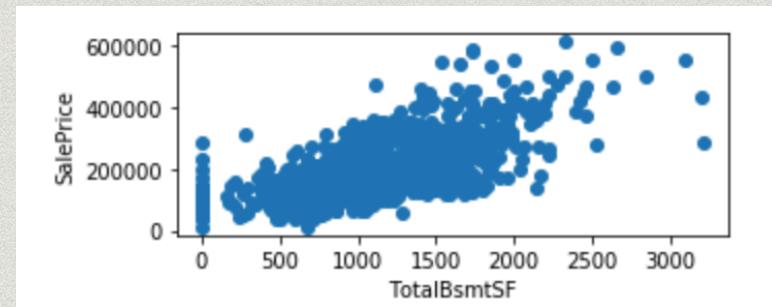
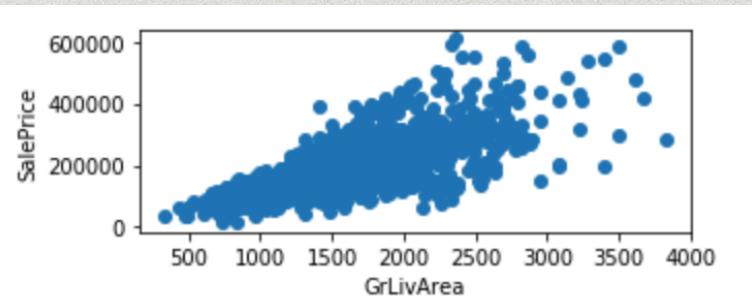
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AUG-24

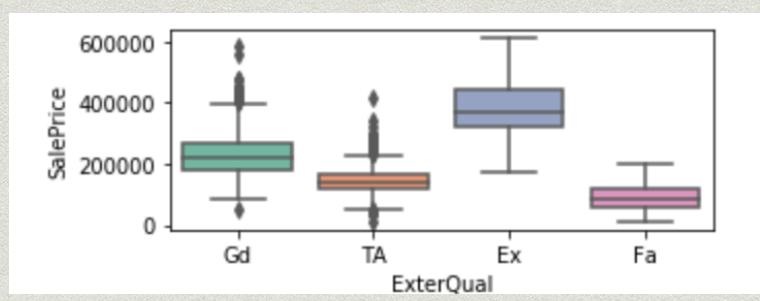
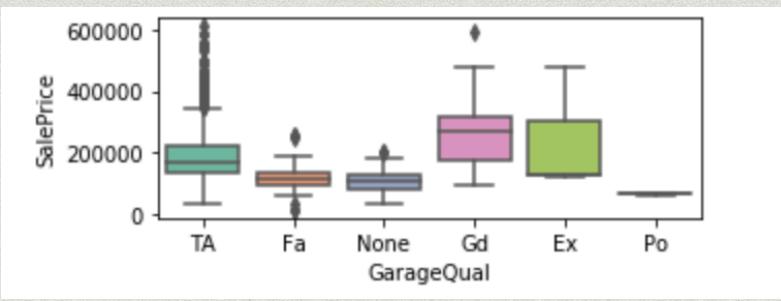
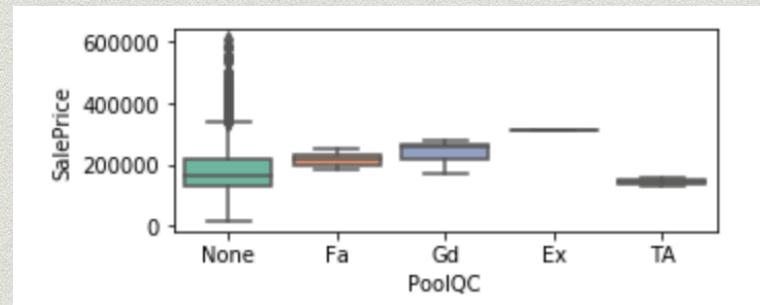
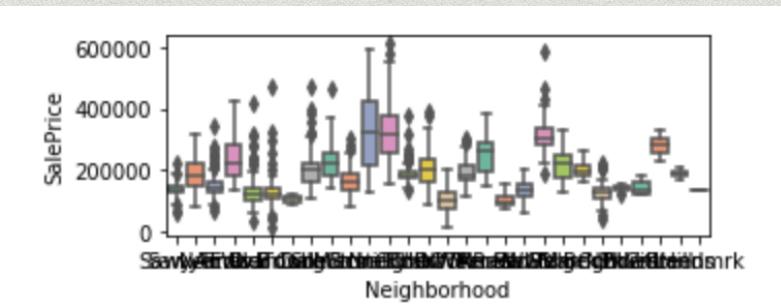
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Data Distributions - 1



Data Distributions -2



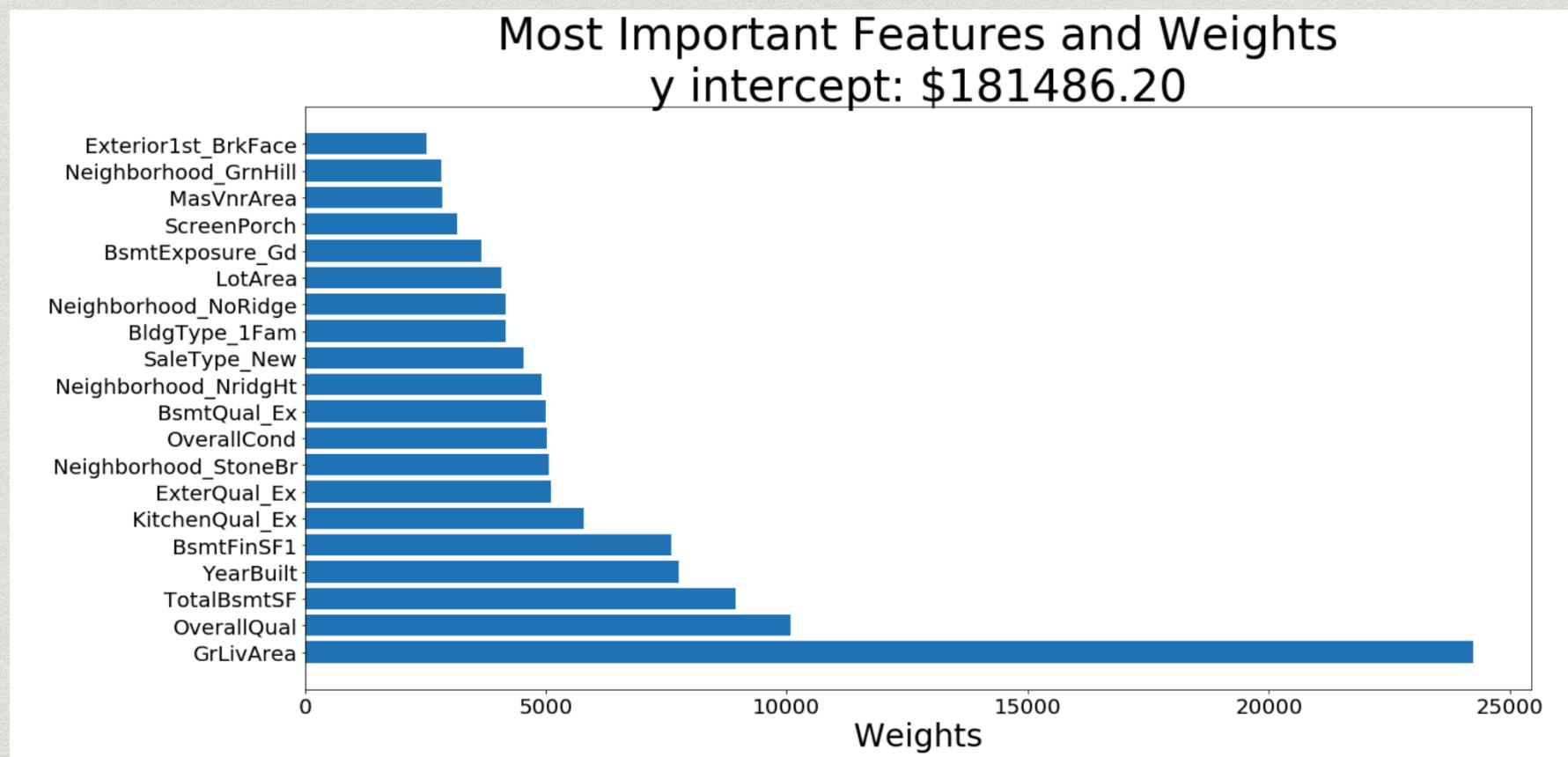
Model Analysis

feature	Lasso-Coefficients
GrLivArea	14847.277369476242
OverallQual	13173.366705095634
TotalBsmtSF	11194.454666543885
YearBuilt	10443.239232155505
BsmtFinSF1	9208.239831709307

feature	Ridge-Coefficients
GrLivArea	14847.277369476242
YearBuilt	13173.366705095634
2ndFlrSF	11194.454666543885
TotalBsmtSF	10443.239232155505
BsmtFinSF1	9208.239831709307

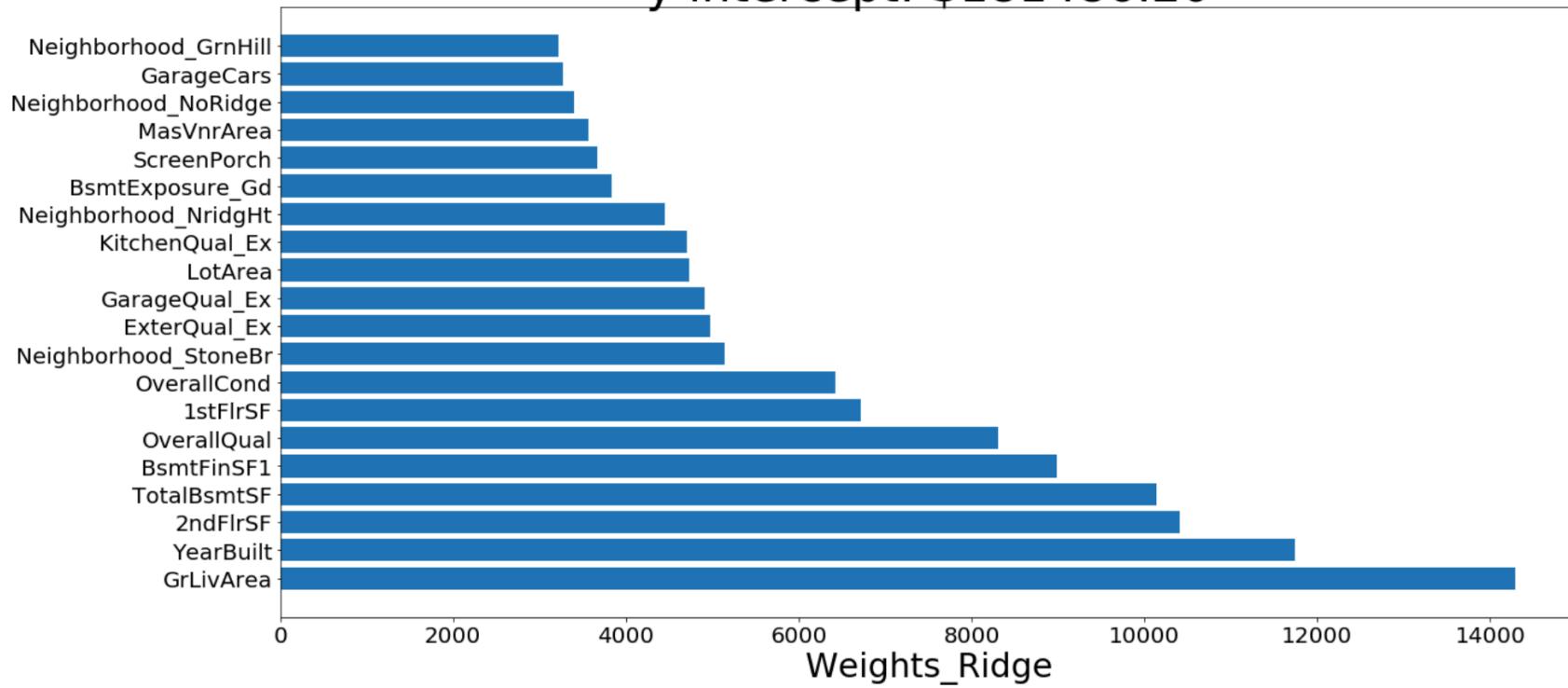
metric	LinReg	Lasso_prod	Ridge_prod
score	0.9441678745346292	0.9441865204471793	0.9442623563732895
MSE	350195921.98677963	350078969.2022968	349603303.4123507
RMSE	18713.522436644034	18710.397355542635	18697.681765725683
mean-AE	12831.536928371226	12810.758110519813	12805.973867902978
medn-AE	9302.135911006277	9309.497258766976	9242.662263545571
r^2	0.9441678745346292	0.9441865204471793	0.9442623563732895

‘Lasso’ Model

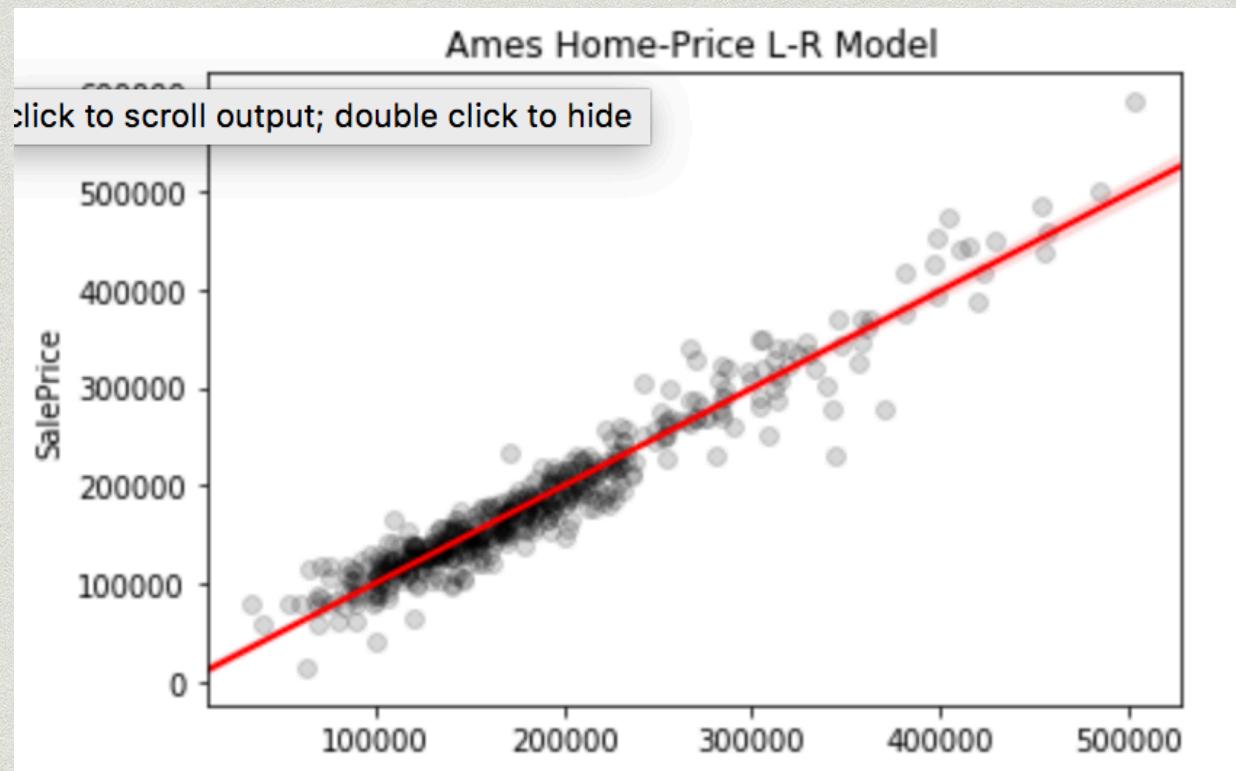


‘Ridge’ Model

Most Important Features and Weights
y intercept: \$181486.20



‘Lin-Reg’ Model



Modeling Home Prices

- * “Greater-Living-Area” is the primary predictor
- * Strong linear relationship between actual and predicted prices
- * Possible high-end prices being under-predicted

