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score: 0.11467

Language: Python

Data tidying:
1. replaced NA values with none,0,median or the most frequent values
2. transform skewed data using boxcox transformation

Feature engineering:
1. created feature ‘TotalSF’ as a combination of 'TotalBsmtSF','1stFlrSF' and '2ndFlrSF'
2. created feature ‘TotBsmtFin’ as a combination of 'BsmtFinSF1' and 'BsmtFinSF2'
3. created feature ‘TotBath’ as a combination ‘FullBath’,’HalfBath’,’BsmtFullBath’ and ‘BsmtHalfBath’

Feature selection:
1. Keep only feature that have coefficients different than zero using LASSO model

Modelization:
1. Ridge Model
2. LASSO Model
3. Extreme Gradient Boosting Model
4. Gradient Boosting Model
5. Light Gradient Boosting Model
6. Single-Hidden Layer Perceptron Model (using Tensorflow with normalized features)

Training:
1. Average of 5-folds cross validation (for the first five models)

Results:
1.Weighted Average of the models above