All the models below were submitted to the competition. The Benchmark score is 0.40890.

- 1) LinearRegression()
 - a. Model1 Score: 0.19883
 - Used all columns: Categorical, numeric and the ones created during visual analysis;
 - To use the categorical data, we first added the data from the "test.csv" file to the training data, then we generated the dummy columns. Later we removed the test data and trained the model. This way, we guarantee that the columns on both training and testing dataset are the same. This strategy will be used in all models below;
 - The column "LotFrontage" had the missing values filled by an equation determined on Excel;
 - No normalization done to the data
 - b. Model2 Score: 1.55232
 - Data normalized
 - c. Model3 Score: 0.19921
 - Column "LotFrontage" calculated with LinearRegression();
- 2) LassoCV() Model4 Score: 0.15103

- 3) SVC didn't work (predicted all rows the same values)
- 4) LinearSVC() Model5 Score: 0.40867
- 5) ElasticNet() Model6 Score: 0.15345
 - Pipeline with StandardScaler and GridSearchCV

Ps: ElasticNet without the StandardScaler didn't run

- 6) RandomForest
 - a. Model7 Score: 0.32349
 - i. Random forest → max_depth = 3
 - ii. GridSearchCV \rightarrow cv = 3
 - b. Model8 Score: 0.30830
 - i. Random forest → max_depth = 4
 - ii. GridSearchCV \rightarrow cv = 3

- c. Model9 Score: 0.30828
 - i. Random forest → max_depth = 4 (found by gridsearch (best_params_)
 - ii. GridSearchCV \rightarrow cv = 5
- d. Model10 Score: 0.25614
 - i. 'RF__max_depth': 7,
 - ii. 'RF__n_estimators': 110
 - iii. GridSearchCV → cv = 5