Kaggle: House Prices - Advanced Regression Techniques Maj-Annika Tammisto



Introduction

Resources:

Training data with 1460 instances and test data with 1459 instances describing 79 aspects of residential homes in Ames, lowa (USA);

Task:

To predict the final price of each home.

Data preparation

- Replacing NA values;
- One-hot encoding;
- Defining important Features;
- Deleting less important Features;
- Adjusting the number and format of
 Features in the training and test datasets
 so that they could be fitted.

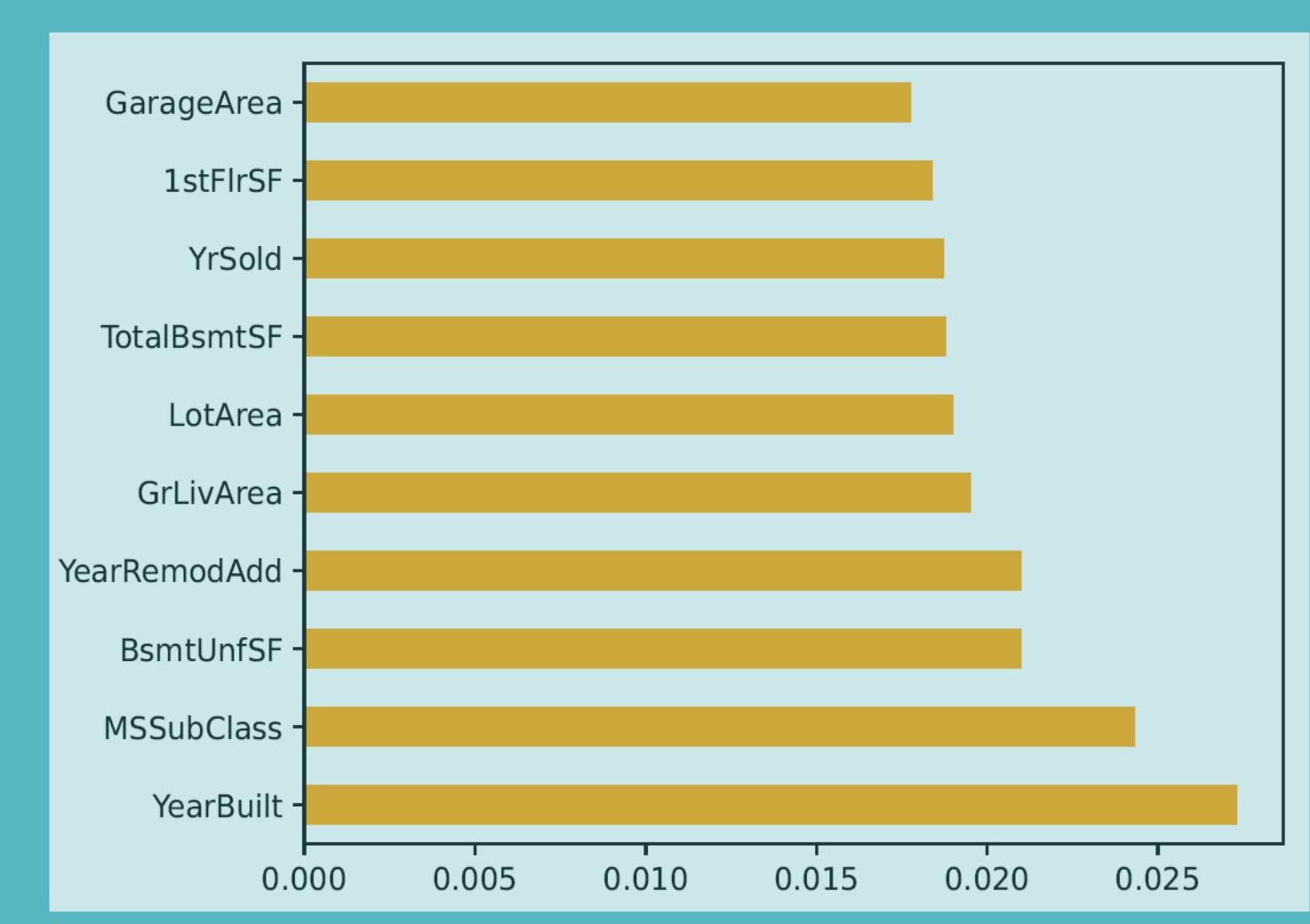
Goals

Goal I:

Applying (at least) three regression techniques and defining the one that achieves the best results on this specific data.

Goal 2:

Reaching a place in TOP 100 on the Leaderboard.



Top 10 of the important Features found with Scikit-learn

Modelling

- I. RandomForestRegressor
- 2. Linear Regression
- 3. XGBRegressor
- 4. GradientBoostingRegressor

Results

Goal I



Goal 2 The best RMSE value achieved with XGBRegressor: 0.12493, No 630 on the Leaderboard.

RMSE value 0.11405 or lower required for reaching TOP 100 on the leaderboard.

Project Repository:

https://github.com/annimaj/KaggleHousePrices