Predicting Housing Prices using Advanced Regression Techniques

Introduction: Ask a home buyer to describe their dream house, and they probably won't begin with the height of the basement ceiling or the proximity to an east-west railroad. But this dataset proves that much more influences price negotiations than the number of bedrooms or a white-picket fence. With 79 explanatory variables describing (almost) every aspect of residential homes in Ames, Iowa, this competition challenges you to predict the final price of each home.(https://www.kaggle.com/c/house-prices-advanced-regression-techniques#description)

Data Source: The Ames Housing dataset was compiled by Dean De Cock for use in data science education. Data set describing the sale of individual residential property in Ames, Iowa from 2006 to 2010. The data set contains 2930 observations and a large number of explanatory variables (23 nominal, 23 ordinal, 14 discrete, and 20 continuous) involved in assessing home values.

Analysis: The aim of this project is to predict the sales price for each house. Extensive EDA will be done. Linear Regression models (Ridge, Lasso, ElasticNet) will be used for prediction.

Deliverables for this project: The code used to perform the analysis and a slide deck explaining key steps will be provided.