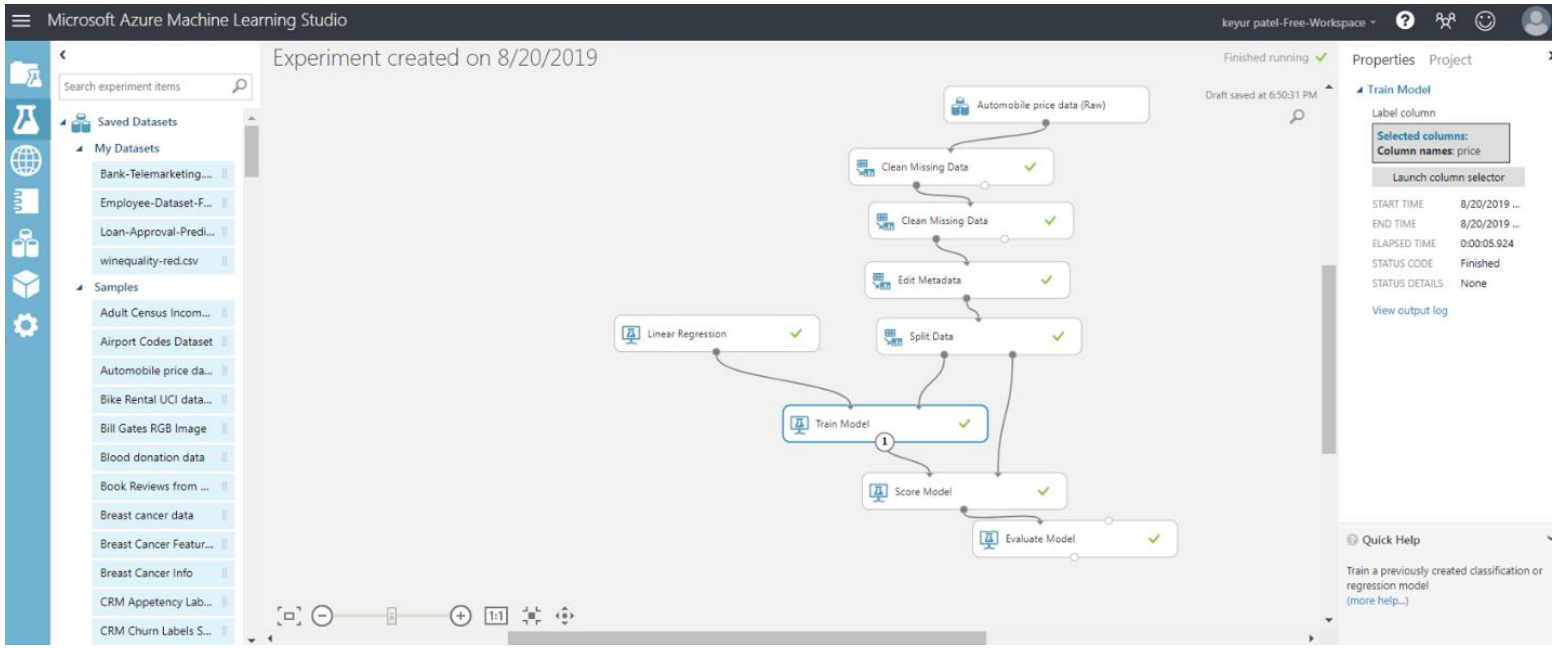
Predict price of automobile based on historic data

Algorithm used : Multiple Linear Regression

Method : Ordinary Least square



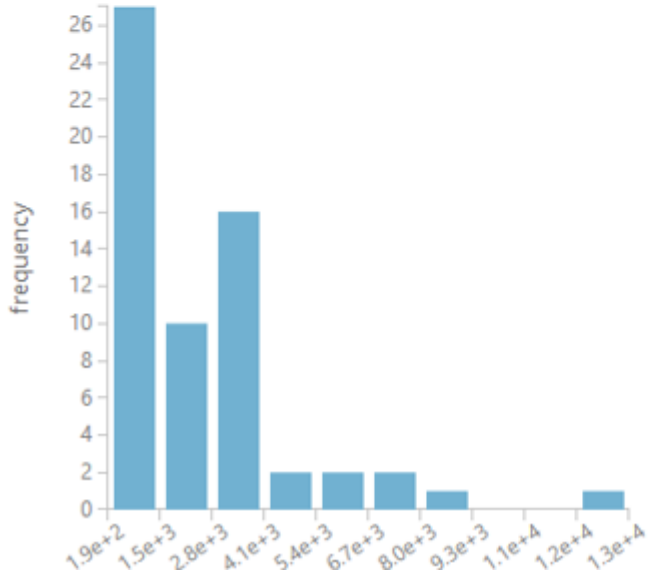
Evaluation of Linear regression model (OLS) with coefficient of regression metric

Experiment created on 8/20/2019 › Evaluate Model › Evaluation results

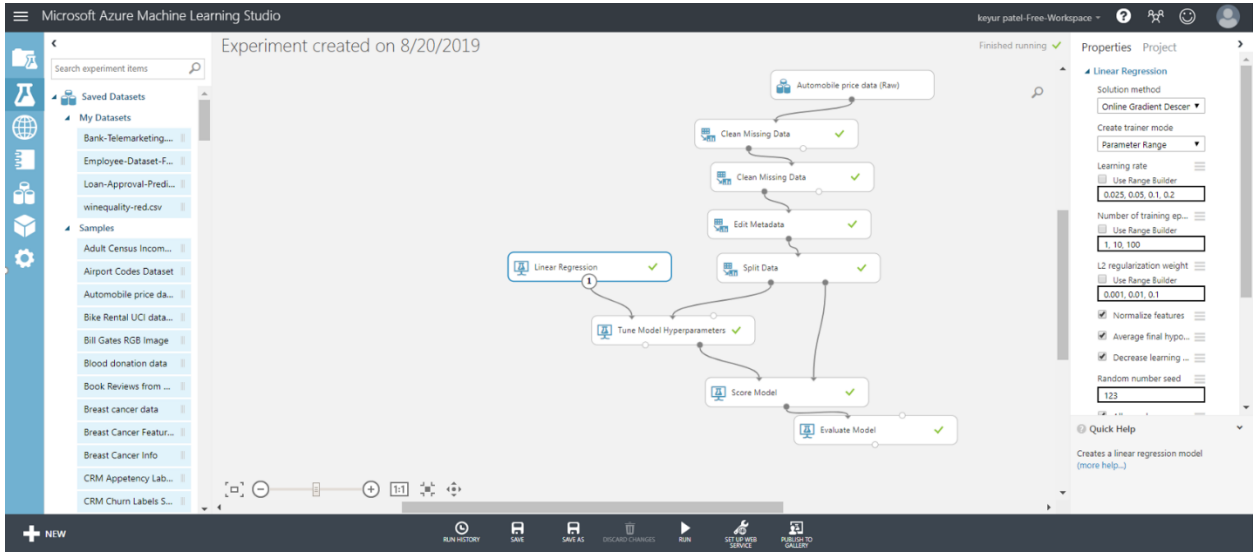
Metrics

Mean Absolute Error	2542.775676
Root Mean Squared Error	3505.155463
Relative Absolute Error	0.356019
Relative Squared Error	0.143567
Coefficient of Determination	0.856433

Error Histogram



SOLUTION METHOD: Gradient Descent



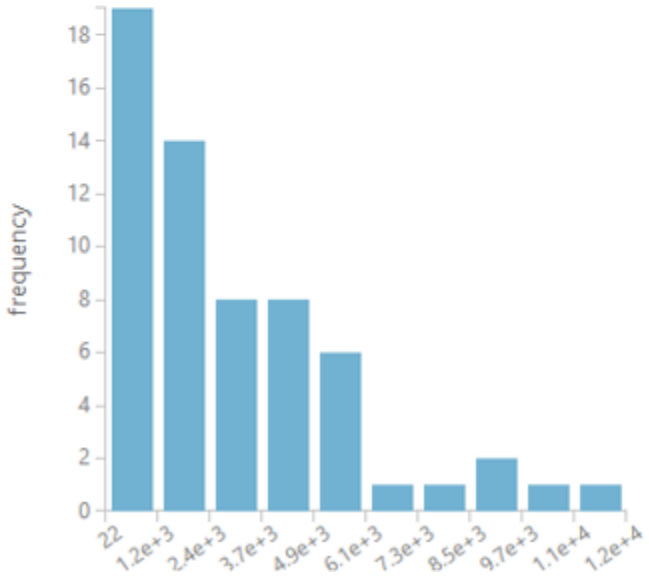
Evaluation of Linear regression model (Gradient Descent) with coefficient of regression metric

Experiment created on 8/20/2019 › Evaluate Model › Evaluation results

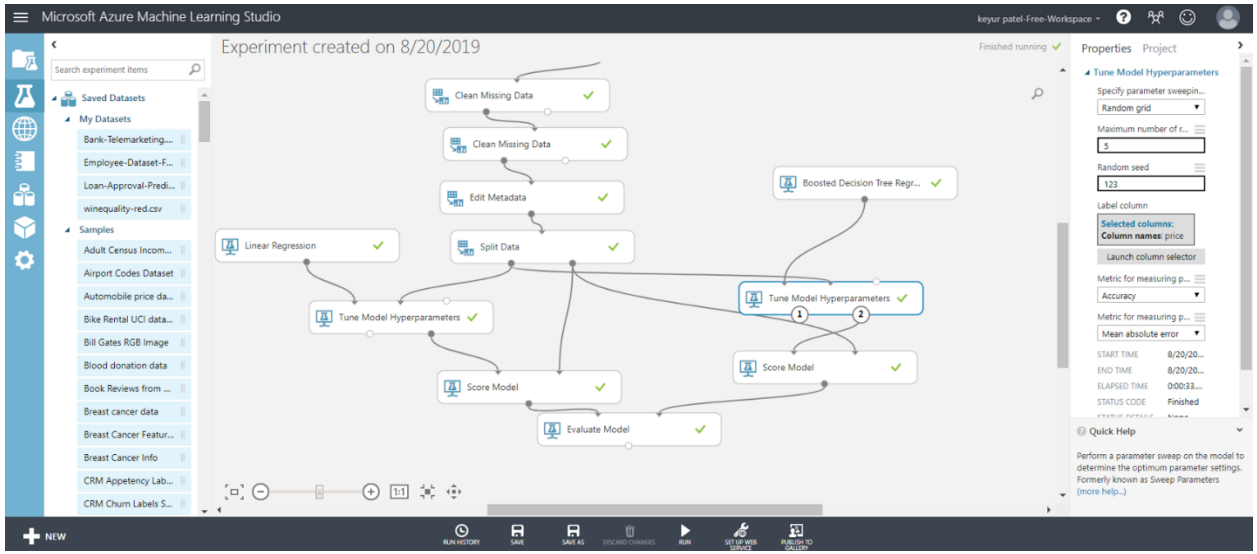
Metrics

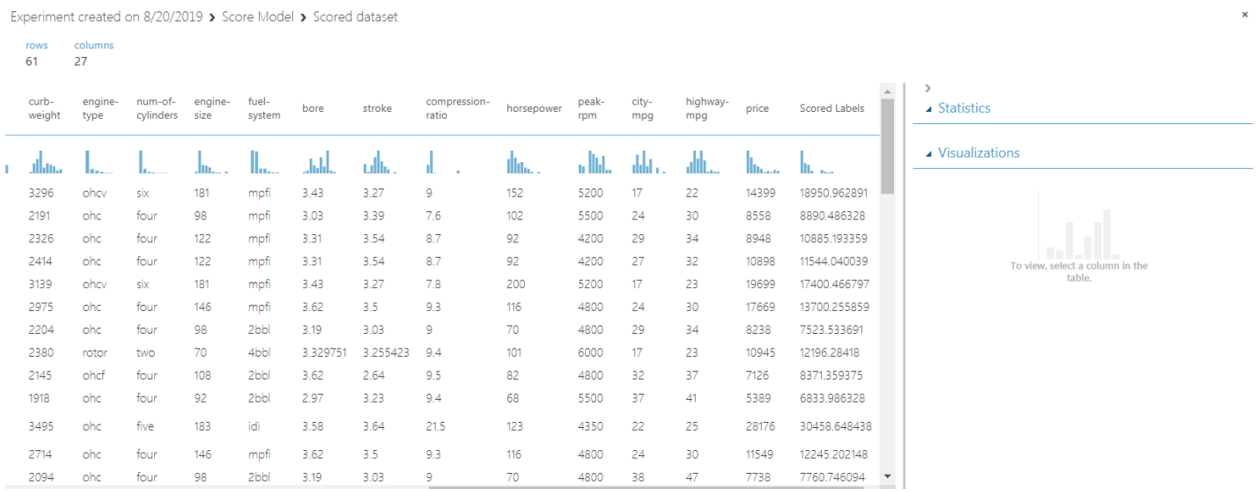
Mean Absolute Error	2950.223905
Root Mean Squared Error	3947.362644
Relative Absolute Error	0.413067
Relative Squared Error	0.182077
Coefficient of Determination	0.817923

Error Histogram

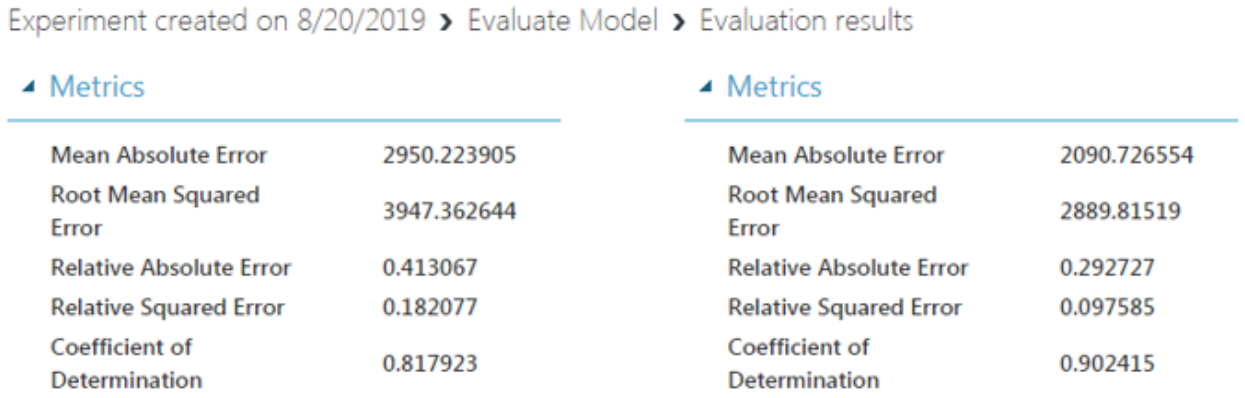


BOOSTED DECISION TREE REGRESSION





Evaluation of Boosted Decision tree with coefficient of regression metric



The performance of Boosted decision tree method is better than linear regression.

The r-squared score (coefficient of determination) of 0.90 is obtained with Boosted decision tree method.