

Azure Microsoft Machine Learning Studio

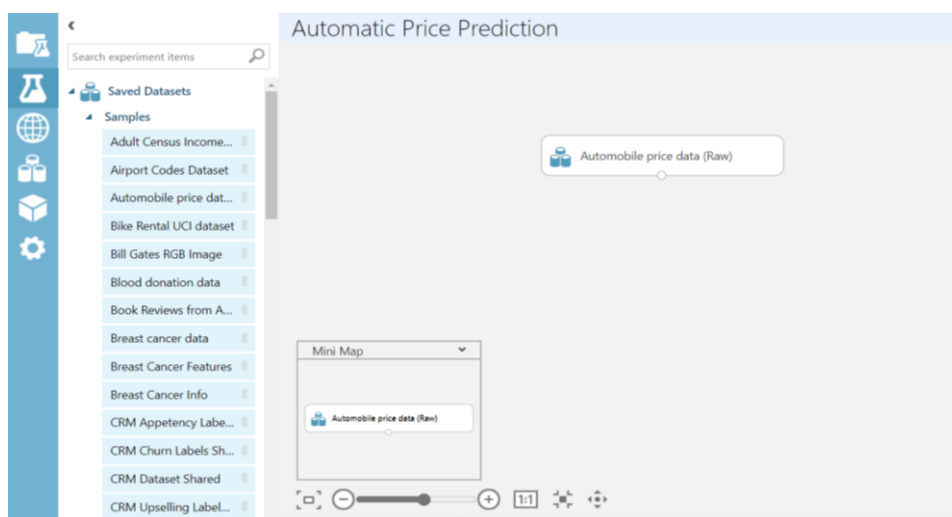
Automatic price prediction Model

- In this project, we tried to create a model which automatically predicts the price of automobile based on the data sets that are already available in Azure Microsoft Machine Learning Studio.

Workflow:

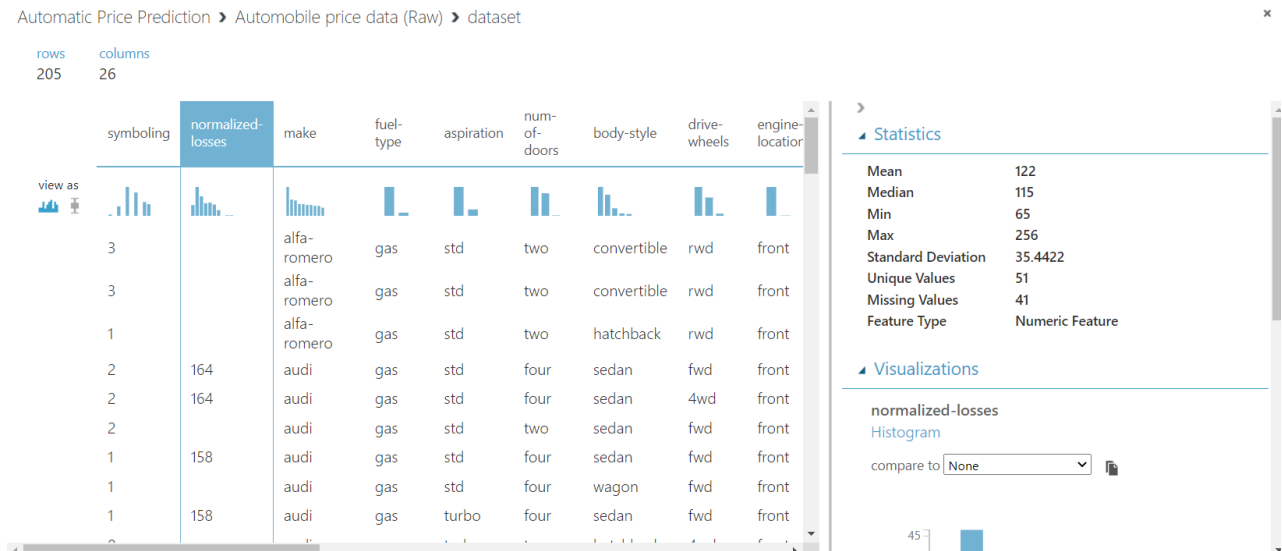
1. Import the Data
2. Identify the columns that has more missing values
3. Missing Values Treatment
4. Split the data
5. Train the model
6. Test the model
7. Evaluate of the model

1. Import the data



2. Identify the columns that has more missing values

Here we observe that the column normalised-losses has more missing values.



3. Missing Values Treatment

Since the column normalized-losses has more missing values we can exclude that column.

Select columns

BY NAME
WITH RULES

☐ Allow duplicates and preserve column order in selection

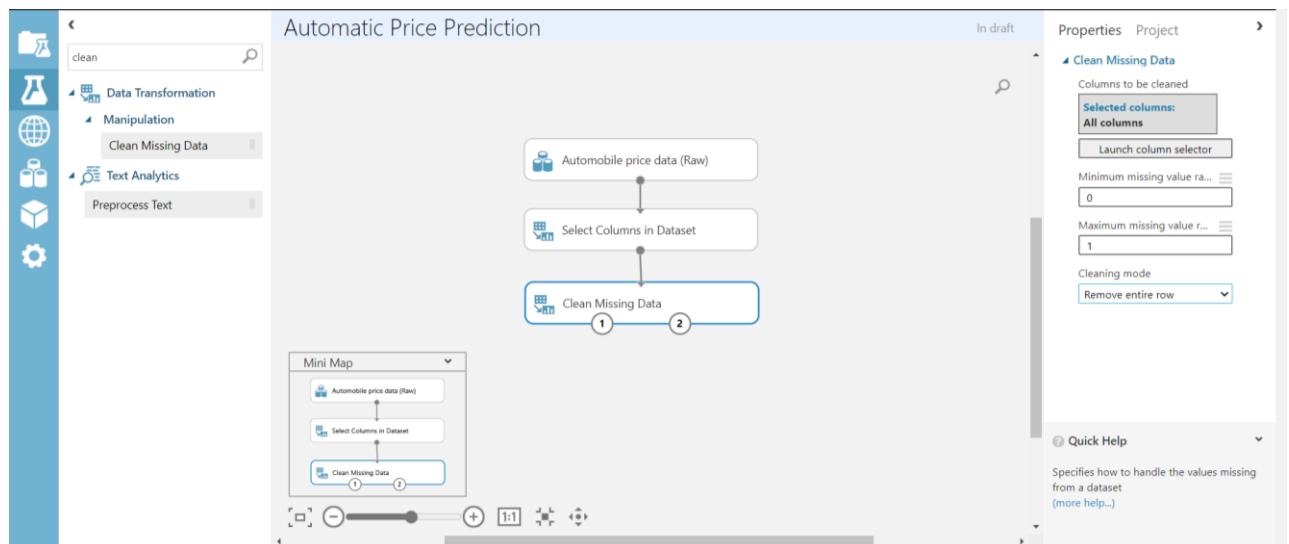
Begin With
ALL COLUMNS NO COLUMNS

Exclude column names normalized-losses

+

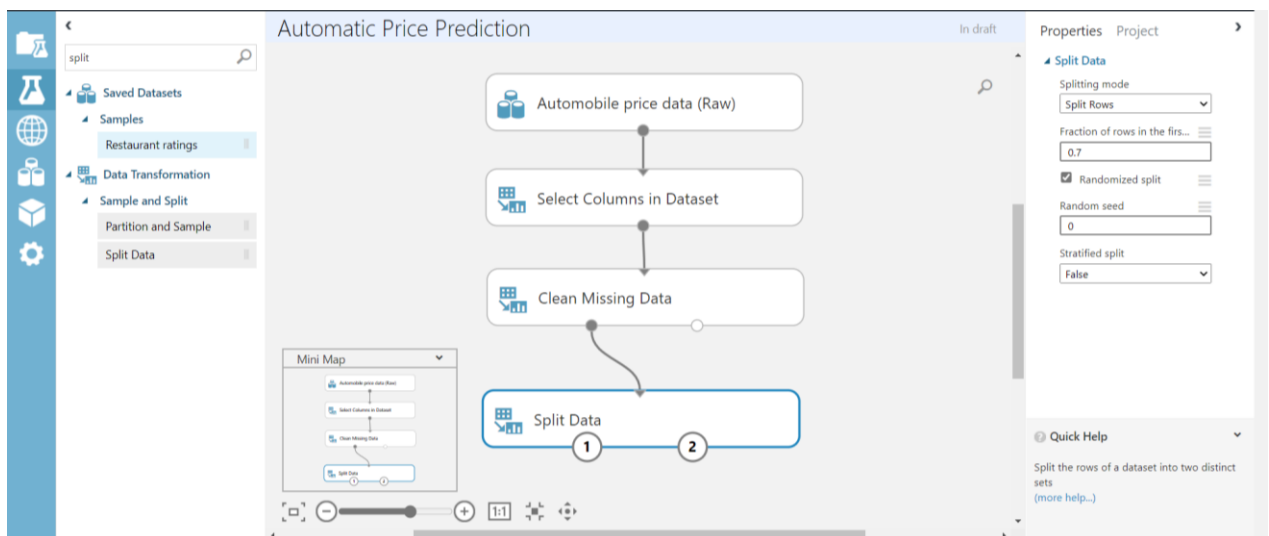
-

✓



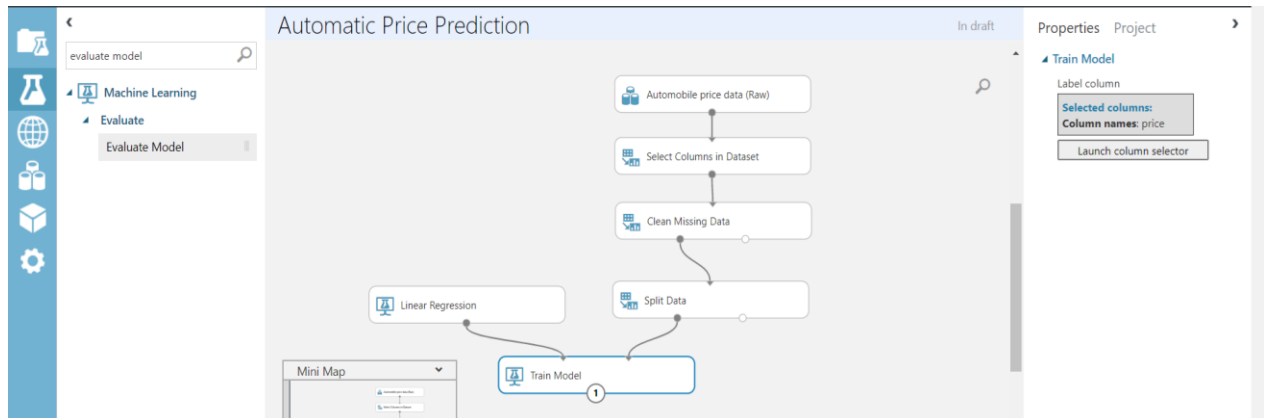
4. Split the data

We usually split the data for training and testing randomly. Here we used 70% of data for training and the remaining for testing.

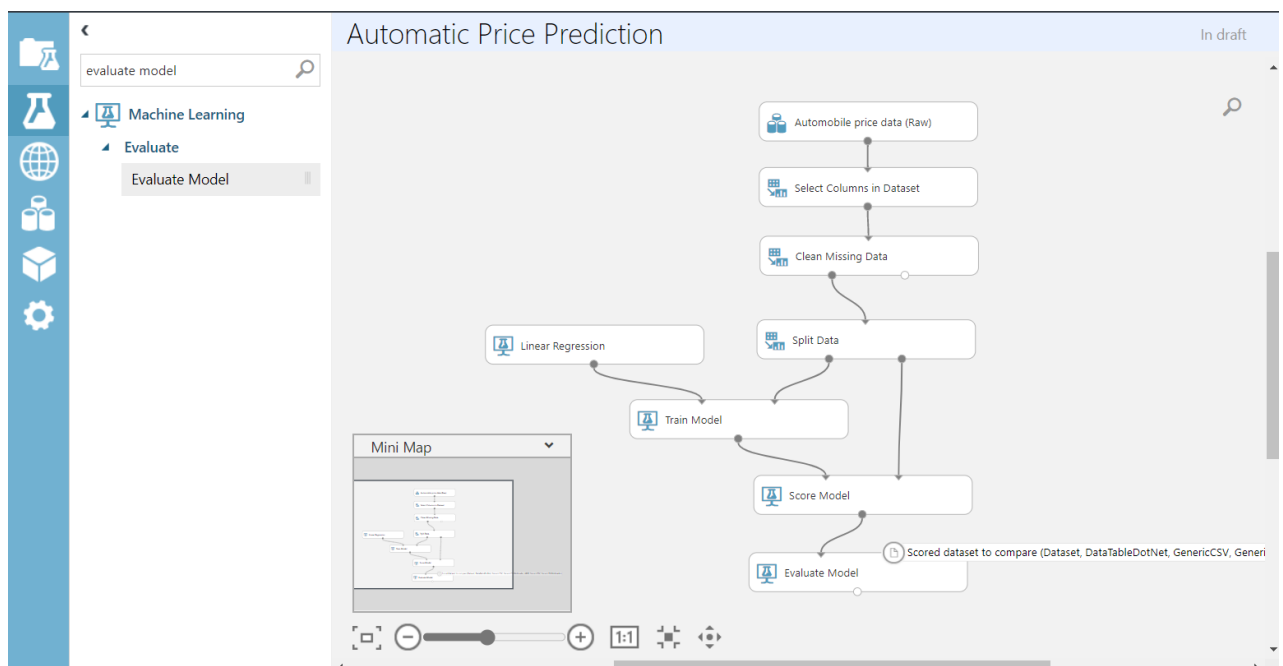


5. Train the Model

We used linear regression model for the analysis.

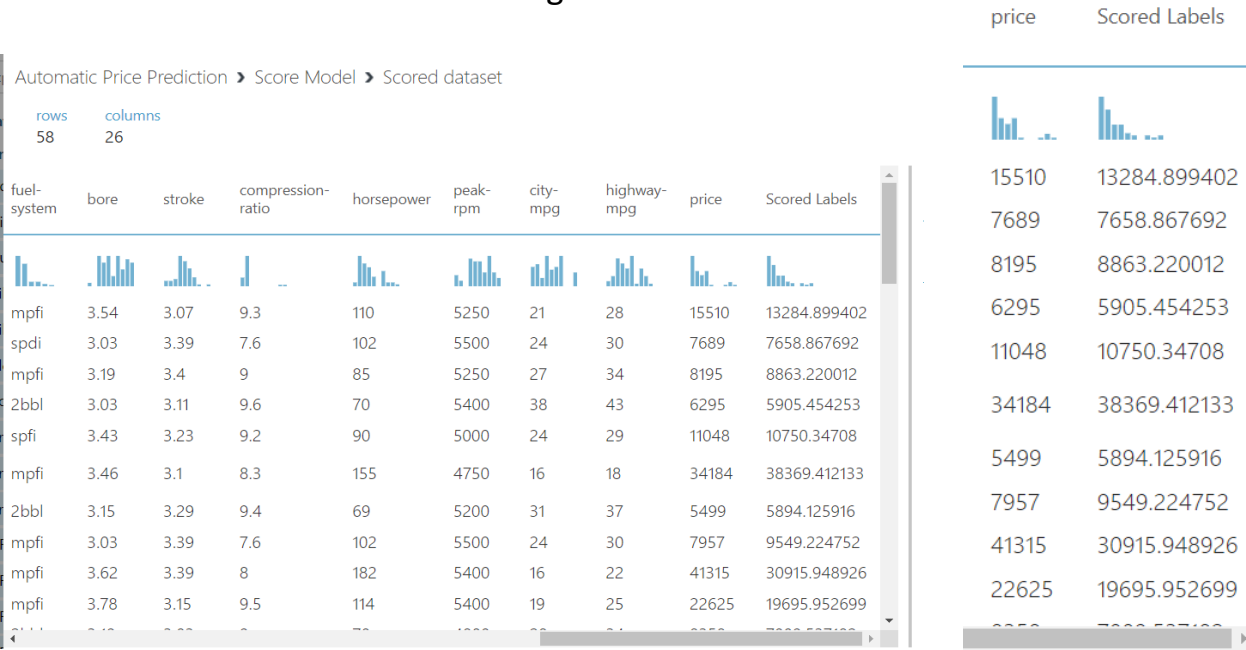


6. Test the model



7. Evaluate of the model

These are the results after evaluating the model.



Automatic Price Prediction > Evaluate Model > Evaluation results

Metrics

Mean Absolute Error	1605.514464
Root Mean Squared Error	2385.271889
Relative Absolute Error	0.266248
Relative Squared Error	0.083112
Coefficient of Determination	0.916888

Error Histogram

