AZURE ML Classic Studio

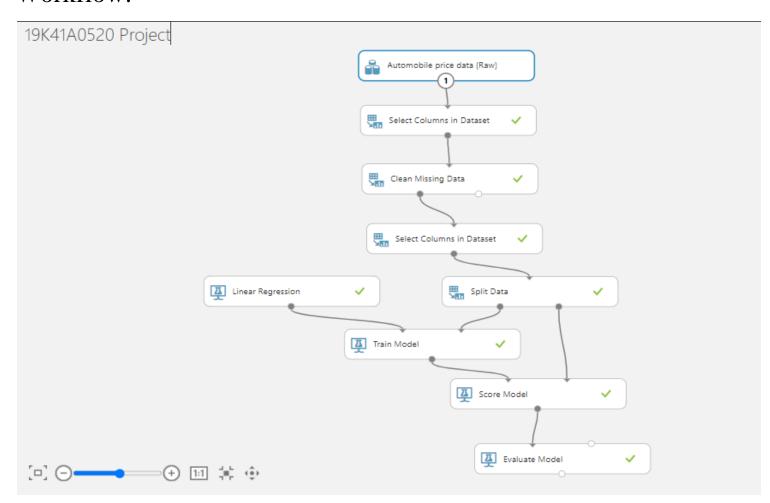
Predicting Automobile prices using Regression Model in Azure ML Classic Studio.

In this project,I created a model that automatically predicts a car's price based on some feautures such as make,model,horsepower, and more.

Project Workflow:

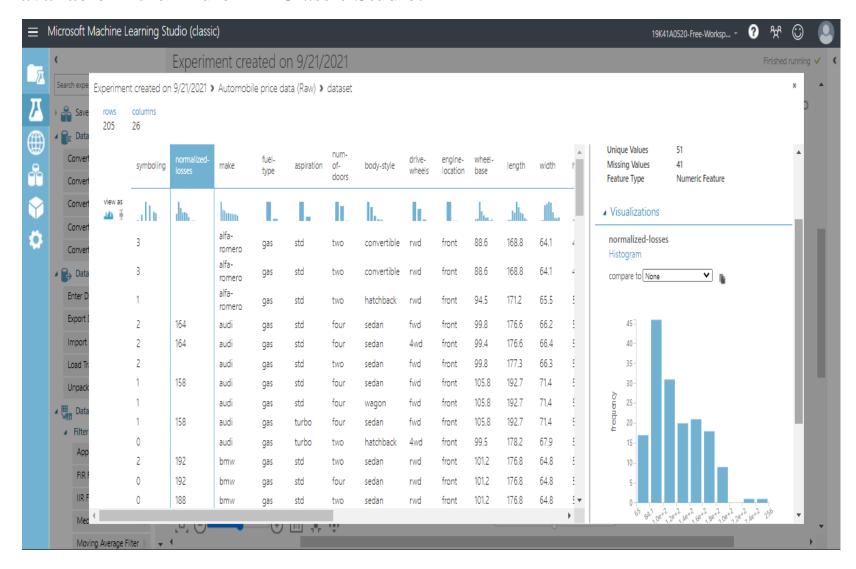
- 1. Load the data.
- 2. Explore data(missing values).
- 3. Preprocess the data.
- 4. Choose the model(Linear Regression).
- 5. Split the data → Training and Testing.
- 6. Train the model.
- 7. Score the model.
- 8. Evaluate the model based on results.

Workflow:-

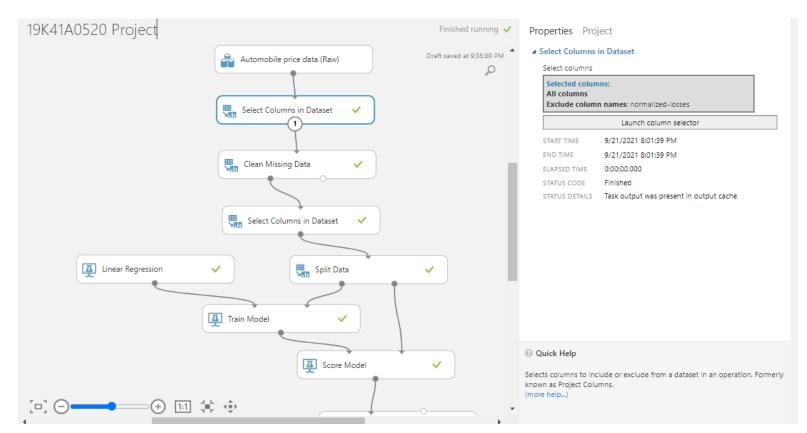


• Import data:

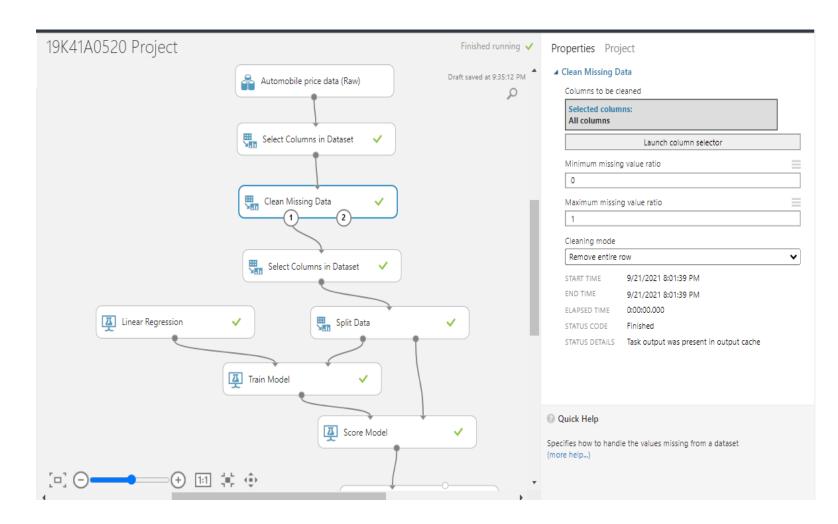
Importing the RAW dataset which is in CSV format. The dataset is preavailable in the Azure ML Classic Studio.

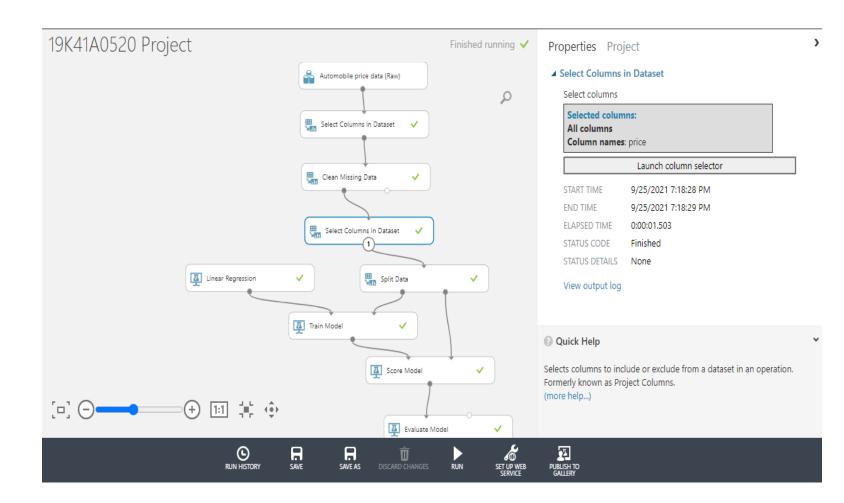


• Remove the column that has more number of null values.

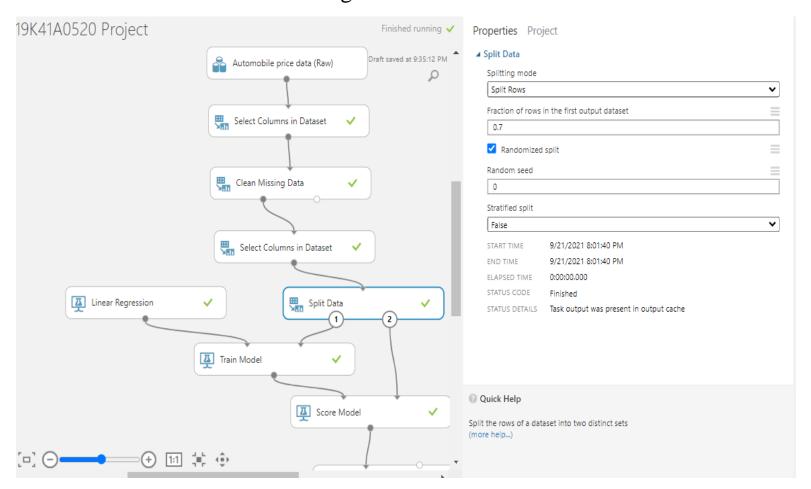


• Clean missing data

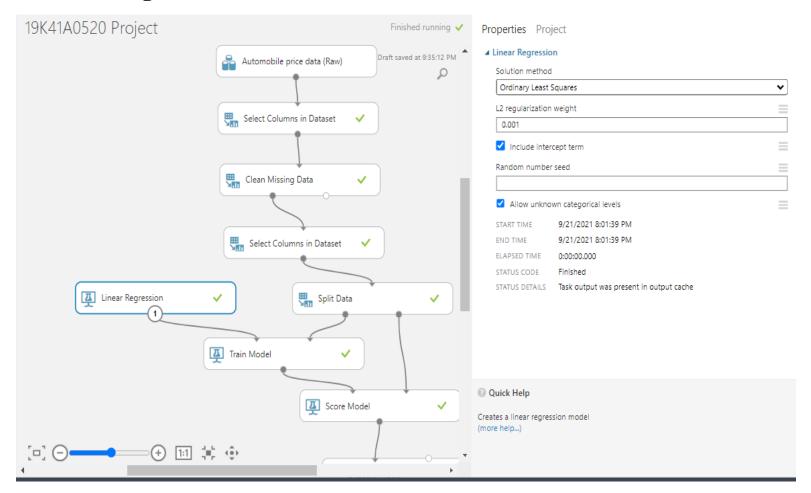




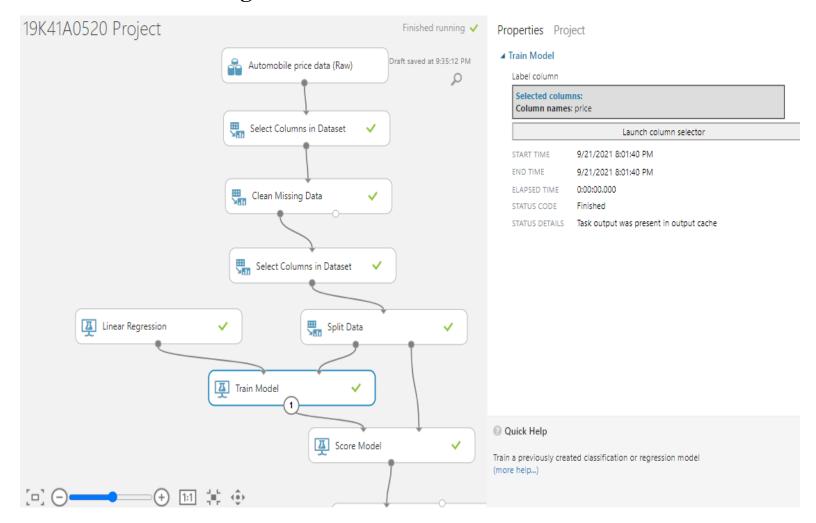
• **Split data:**Use the split data module to randomly divide the input data so that the training dataset contains 70% of the original data and the testing data set contains 30% of the original data.



• Linear Regression to train model

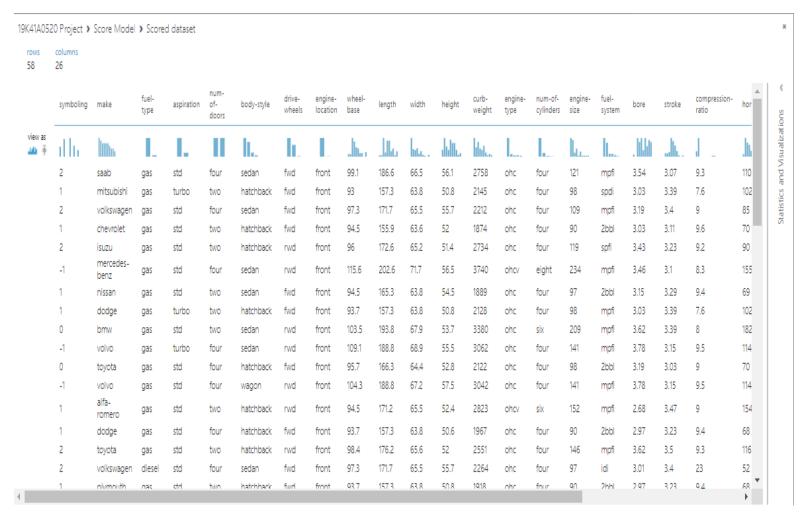


• Model Training



Score Model and Evaluate Model

After the model is trained, we can use the Score Model and Evaluate Model modules to generate predicted results and evaluate the models.



Evaluation Results:

19K41A0520 Project > Evaluate Model > Evaluation results

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

