### **AZURE ML Classic Studio**

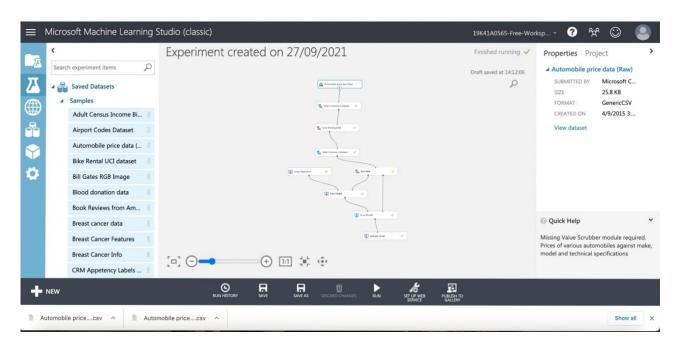
Predicting Automobile prices using Regression Model in Azure ML Classic Studio.

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.

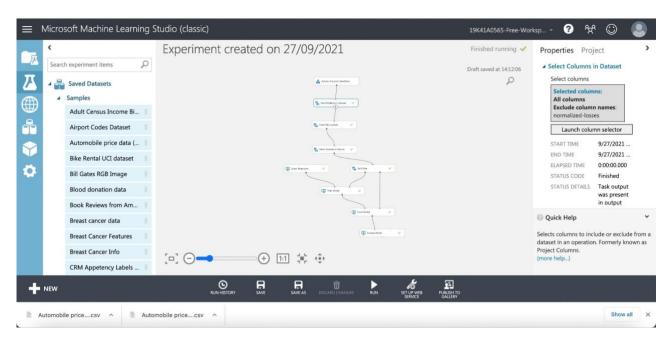
#### Automobile Price RAW dataset (CSV format)

### • Explore Data

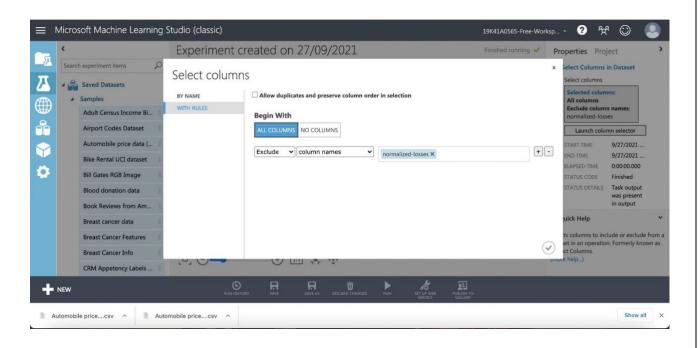
This basically includes data visualization to search for any missing values in the Dataset.

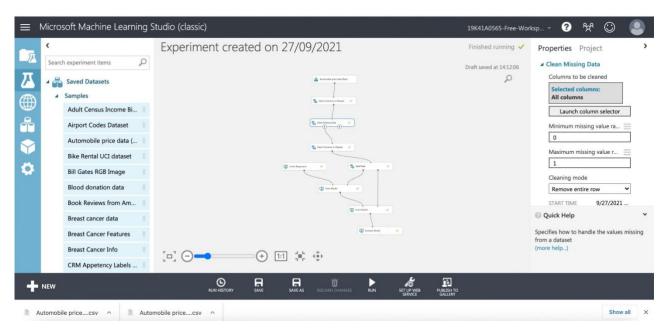
if any missing values are found, then they needs to be cleaned.

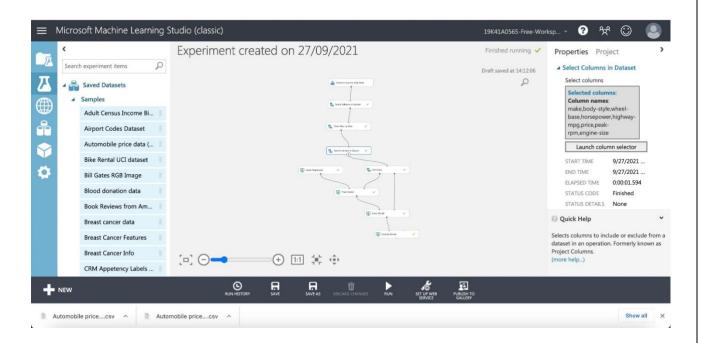
selecting the required columns and clean the data using the Clean Missing Value module (Just Drag n' Drop )

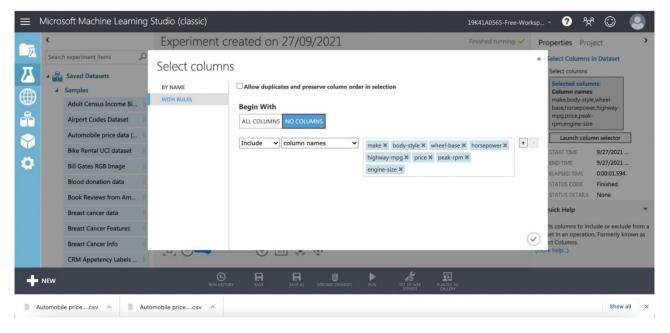


as the normalized loss has 41 missing values in the Dataset, those missing values are to be cleaned.



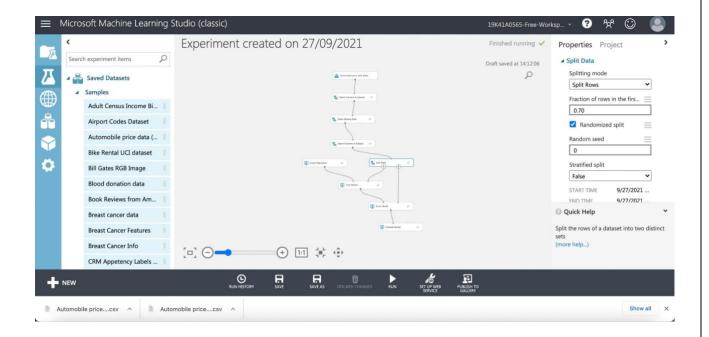






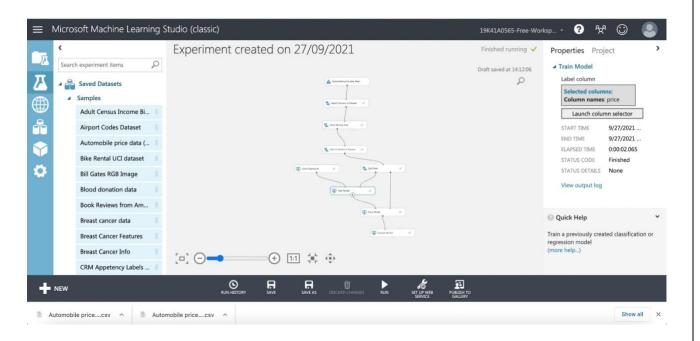
## • Split Data

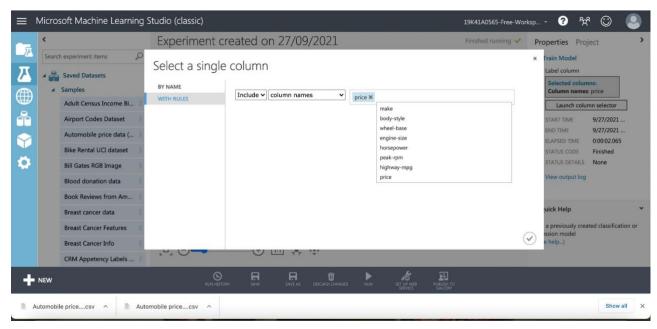
Use the Split Data module to randomly divide the input data so that the training dataset contains 70% of the original data and the testing dataset contains 30% of the original data.



# Splitting data

• Model Training and Algorithm





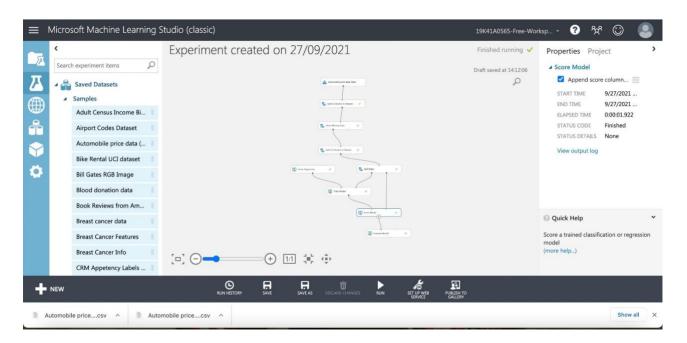
# **Model Training**

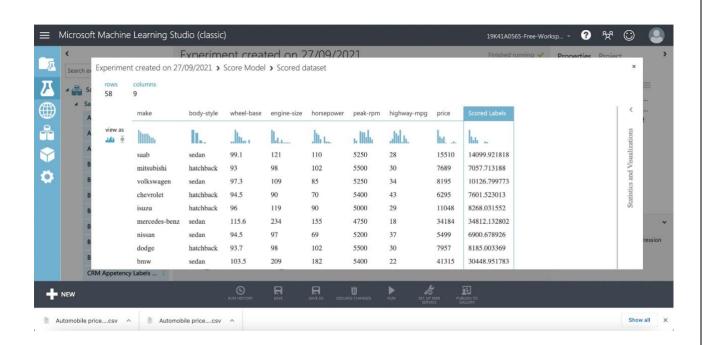
# • using Linear regression to train the model

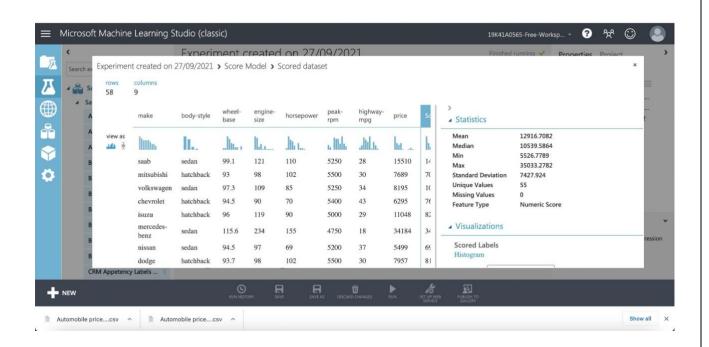
Since the goal of this sample is to predict automobile prices, and because the label column (price) is continuous data, a regression model can be a good choice. We use Linear Regression for this pipeline.

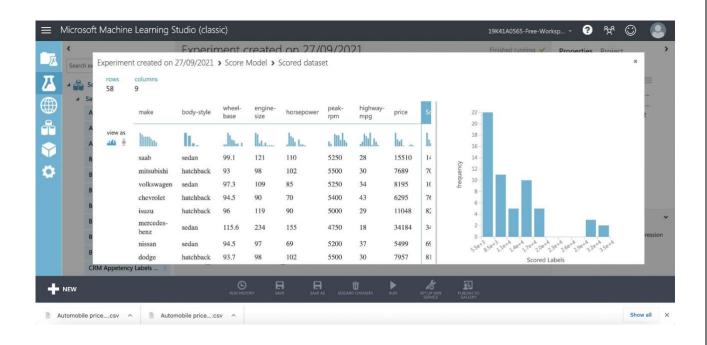


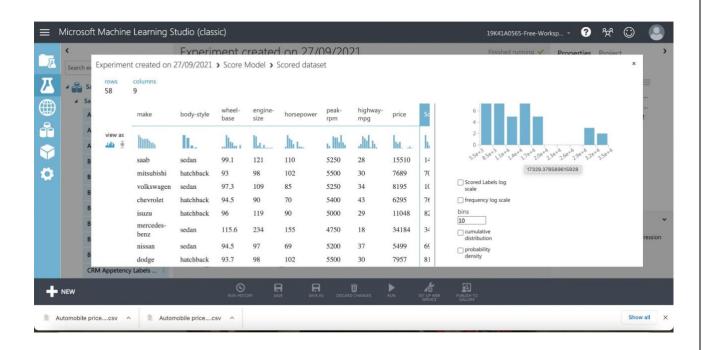
#### • Score Model and Evaluate Model











## • Evaluation Results



