ARTIFICIAL INTELLIGENCE

ASSIGNMENT - IV

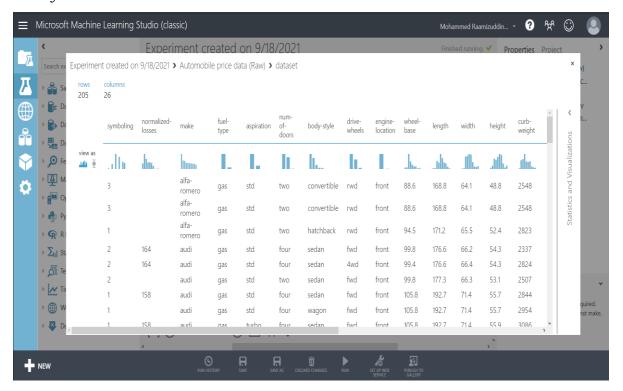
Software Used: Microsoft Azure Machine Learning Studio.

About the Assignment: The model used in this assignment is Linear Regression Model. The trained model finds the price of the automobile based on certain parameters. The Steps Followed in Workflow are:

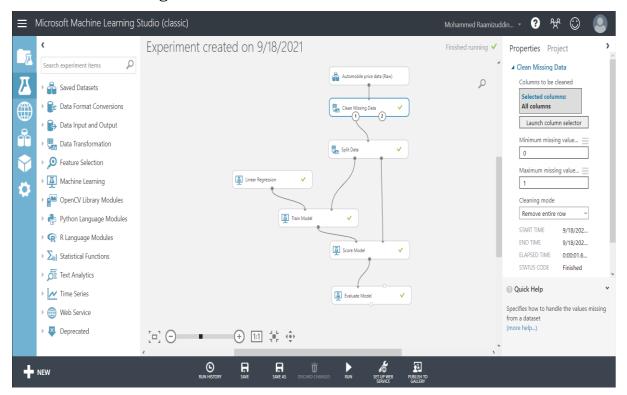
- 1. Load the data.
- 2. Study the data and find out the necessary variables.
- 3. Pre-Process the data.
- 4. Choose the model to be used (Linear Regression Model in this case)
- 5. Split the data for training and testing.
- 6. Train the model with the training data.
- 7. Score the model using the testing data.
- 8. Evaluate the model based on the results.

Workflow:

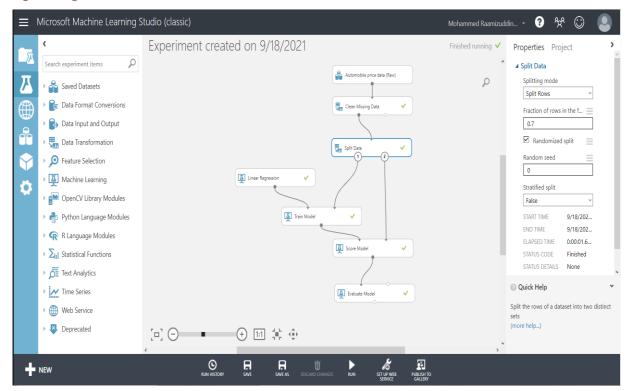
Study the data:



• Remove the missing data:

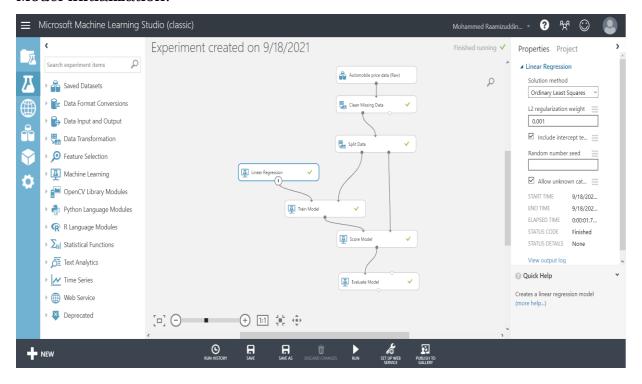


Splitting the data:

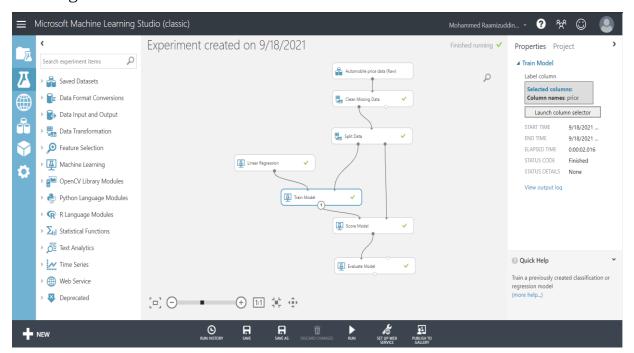


Next steps are to initialize the model and train the model for the prediction of prices depending on all the other data items in columns of the table.

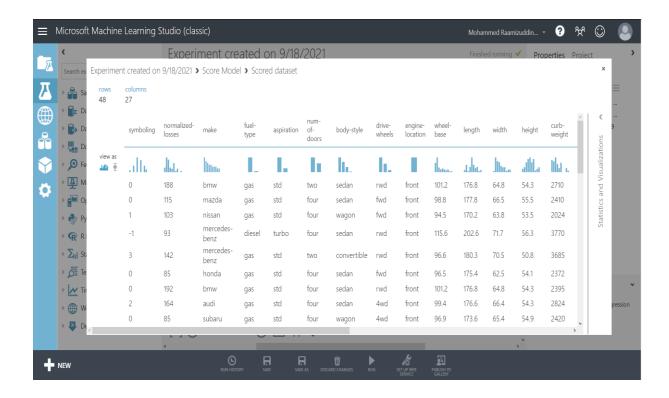
• Model initialization:



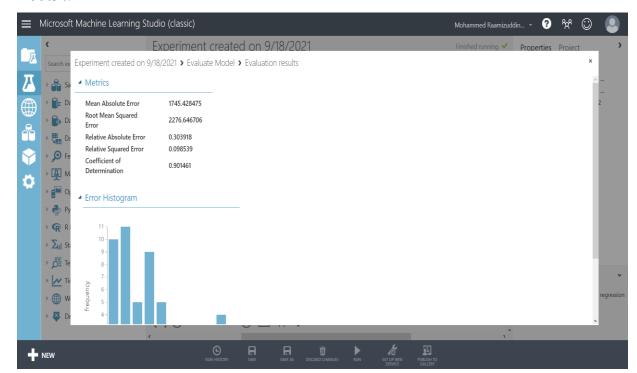
Training model and Scored dataset:



The result of the prediction is that the price is predicted with an accuracy of 90.14 percent (%) as per the evaluation the model is able to predict outcome properly in most cases.



Result:



The parameters used to determine price are:

All the parameters of 27 Columns are used to determine the price.

• Workflow:

