REPORT

Lab3.Fuel Amount Prediction using Linear Regression

In this lab we have build a Linear Regression model to predict the amount to be spent on fuel.

As usual first we need to understand the data and check their properties by using shape, data type, column name, null values.

Then after understanding the data will split the data to train the machine learning model and to perform prediction on test data sklearn's library called train test split helps to split the dataset with necessary parameters testsize=0.3 or trainsize=0.6 similarly.

Also understood how to apply normalization methods for feature scaling then finally we are comparing the performance with KNN regressor and SGD regressor. Each type of regressor, classifier performs different methods to make prediction, as a data scientist or data engineer we need to choose the right algorithm and right classifiers which gives the best accuracy based on the problem we have.