

**Project Development Phase
Model Performance Test**

Date	10 November 2022
Team ID	PNT2022TMID
Project Name	Project – Machine Learning Based Vehicle Performance Analyzer
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No	Parameter	Values	Screenshot
1.	Metrics	Regression Model MAE -2.01, MSE - 7.82, RMSE - 2.79, R2 score -0.87	<pre> In [34]: from sklearn import metrics # Calculate MAE rf_reg_MAE = metrics.mean_absolute_error(Y_test, Y_pred) print('Mean Absolute Error (MAE):', rf_reg_MAE) # Calculate MSE rf_reg_MSE = metrics.mean_squared_error(Y_test, Y_pred) print('Mean Squared Error (MSE):', rf_reg_MSE) # Calculate RMSE rf_reg_RMSE = np.sqrt(metrics.mean_squared_error(Y_test, Y_pred)) print('Root Mean Squared Error (RMSE):', rf_reg_RMSE) Mean Absolute Error (MAE): 2.0113333333333334 Mean Squared Error (MSE): 7.829347783333333 Root Mean Squared Error (RMSE): 2.7980971718890197 In [45]: from sklearn.metrics import r2_score print("R2 score : %.2f" % r2_score(Y_test,Y_pred)) R2 score : 0.87 </pre>