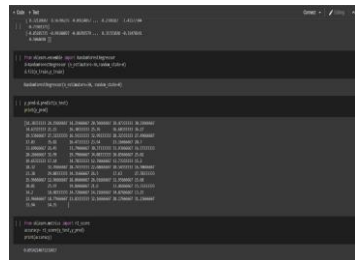
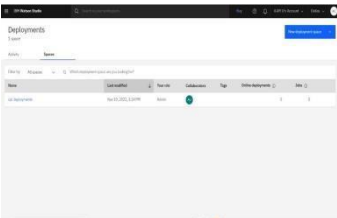


Project Development Phase Model Performance Test

Date	30 November 2022
Team ID	PNT2022TMID41216
Project Name	Project – Developing a Vehicle Performance Analyzer Using ML
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	<p>Regression Model: MAE -0.65 , MSE -0.79 , RMSE - 0.35 , R2 score – 0.53</p> <p>Classification Model: Confusion Matrix =+13.6e, Accuracy Score- 0.89 & Classification Report - scattering</p>	 <p>The screenshot shows a Jupyter Notebook with the following code and output:</p> <pre> from sklearn.metrics import mean_absolute_error, mean_squared_error, r2_score, confusion_matrix, accuracy_score, classification_report # Regression Metrics mae = mean_absolute_error(y_test, y_pred) mse = mean_squared_error(y_test, y_pred) rmse = np.sqrt(mse) r2 = r2_score(y_test, y_pred) # Classification Metrics cm = confusion_matrix(y_test, y_pred) acc = accuracy_score(y_test, y_pred) cr = classification_report(y_test, y_pred) </pre> <p>The output displays the calculated metrics for both regression and classification models.</p>
2.	Tune the Model	Hyper parameter Tuning – Through IBM Deployment Validation Method – IBM Cloud	 <p>The screenshot shows the IBM Watson Machine Learning deployment interface. It displays a table of deployments with columns for Name, Created, Status, and Type. A deployment named 'ml-model' is shown with a status of 'Succeeded'.</p>