Project Development Phase Model Performance Test

Date	21st November 2023
Team ID	Team-593183
Project Name	Car Purchase Prediction using ML
Maximum Marks	10 Marks

Model Performance Testing:

In this project we have obtained highest accuracy of 78.75% using two different classification models; i.e.; **Support Vector Classifier** and **Naive Bayes Classifier**.

Support Vector Classifier:

SI.	Parameter	Values	Screenshot				
SI. No. 1.	Parameter Metrics	Classification Model: Confusion Matrix	[107] from sklear cms = confu cms array([[5, [1, [0,	1, 0, 48, 2, 1, 7, 4, 5,	1], 0], 0], 3]])	st, y_pre	d)
		Accuracy Score	0.7875	;			
		Classification Report	[106] print(classifi 0 1 2 3 accuracy macro avg weighted avg	cation_repo precision 0.62 0.89 0.50 0.75 0.69 0.80	recall 0.71 0.94	f1-score 0.67 0.91 0.64 0.33	support 7 51 8 14 80 80 80

Naive Bayes Classifier:

SI. No.	Parameter	Values	Screenshot
1.	Metrics	Classification Model: Confusion Matrix	<pre>[118] from sklearn.metrics import confusion_matrix cmn = confusion_matrix(y_test, y_pred) cmn array([[3, 3, 1, 0],</pre>
		Accuracy Score	[1, 5, 3, 5]]) [116] accuracy_score(y_test,y_pred) 0.7875

