Final Submission Phase

Solution Performance Test

Date	09 November 2023
Team ID	SPSGP-600765
Project Name	Car purchase Prediction Using ML
Maximum Marks	15 Marks

Model Performance Testing:

S.No	Parameter	Values	Screenshot
1.	Summary	Total params: 83,88,60,800	<pre># Print the information print(f"Number of Estimators (Trees): {n_estimators}") print(f"Number of Features: {n_features}") print("Feature Importances:") print(f"Total Parameters: {total_params}") your_feature_names = ['UserID', 'Gender', 'Age', 'AnnualSalary'] for feature, importance in zip(your_feature_names, feature_importances): print(f"{feature}: {importance:.4f}")</pre>
			Number of Estimators (Trees): 100 Number of Features: 4 Feature Importances: Total Parameters: 838860800 UserID: 0.1224 Gender: 0.0162 Age: 0.4451 AnnualSalary: 0.4163

2.	Metrics	Confusion Matrix - ,	# Use score method to get accuracy of model					
		Accuray Score- &	score = model2.score(X_test, Y_test)					
		Classification Report	<pre>print("Accuracy using RFC: ",score)</pre>					
			<pre># classification report print(classification_report(Y_test,r_y_predict))</pre>					
			Accuracy using RFC: 0.9025					
				pre	cision	recall	f1-score	support
				0	0.95	0.89	0.92	246
				1	0.84	0.93	0.88	154
			accurac	су			0.90	400
			macro av	/g	0.89	0.91	0.90	400
			weighted av	/g	0.91	0.90	0.90	400
			<pre># Use confusion matrix confusion_matrix(Y_test,r_y_predict)</pre>					
			array([[218	3, 28] [, 143]				