Project Development Phase Model Performance Test

Date	10 November 2023	
Team ID	591-581	
Project Name	Project – Travel Insurance Prediction	
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: MSE – 0.50, RMSE -0.25, R2-score -0.07	# RMSE (Root Mean Square Error) print(np.sqrt(metrics.mean_squared_error(y_test,l_pred))) 1
		Classification Model: Confusion Matrix - ,[[335 40]	#Accuracy score from sklearn.metrics import accuracy_score,confusion_matrix,classification_report print("accuracy_score = ", accuracy_score(y_test,k_pred)) print("classification Report = ") print("classification report(y_test,k_pred)) **/ Obs **Accuracy_score = 0.7621440536013401 Confusion Natrix = [[335 40] [392 120]] Classification Report = precision recall f1-score support 0 0.77 0.89 0.83 375 1 0.75 0.54 0.63 222 accuracy 0 0.76 597 macro avg 0.76 0.72 0.73 597 weighted avg 0.76 0.76 0.75 597
2.	Tune the Model	Hyperparameter Tuning – Not used Validation Method – Gradient Boosting	#gradient Boost eval_classification(gbm) Accuracy (Test Set): 0.83 precision (Test Set): 0.94 Recall (Test Set): 0.58 F1-Score (Test Set): 0.72