## Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID591581	
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
MSE – 0. RMSE - 0. RMSE - 0. R2-score  Classifica Confusion Accuray S	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)))  v 0.0  0.5012547071170855   #mean squared error  print(metrics.mean_squared_error(y_test,l_pred))  v 0.0  0.25125628140703515   from sklearn.metrics import r2_score
	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("Confusion Matrix = ", confusion_matrix(y_test,k_pred)) print(classification_proport(y_test,k_pred))  > 00  - Accuracy Score = 0.7621440536013401 Confusion Matrix = [[335 40] [102 120]] Classification Report = precision recall f1-score support  0 0.77 0.89 0.83 375 1 0.75 0.75 0.75 0.75 0.75 222 accuracy 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