Project Development Phase Model Performance Test

| Date | 9 November 2022 | | |
|---------------|----------------------------------------|--|--|
| Team ID | PNT2022TMID592946 | | |
| Project Name | Project – Travel Insurance Predication | | |
| | using Machine Learning | | |
| 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 | Classification Model: Confusion Matrix -, Accuracy Score- & Classification Report - | <pre>print(classification_report(y_test,pred_y)) mathref{fig:1} print(classification_report(y_test,pred_y)) print(classification_report(y_test,pred_y)) mathref{fig:1} ma</pre> | | | |
| 2. | Tune the Model | Hyperparameter Tuning - Validation Method - | from sklearm.model_selection import RandomizedSearchCV model = GradientBoostingclassifier() parm vals = ("axv_depth": [200, 500, 800, 1100], 'n_estimators': [100, 200, 300, 400], 'learning_rate': [0.001, 0.01, 0.1, 1, 10]) random_rf = RandomizedSearchCv((setimator=model, param_distributions-param_vals, | | | |