Project Development Phase Model Performance Test

| Date | 10 November 2022 | | |
|---------------|---|--|--|
| Team ID | PNT2022TMID29582 | | |
| Project Name | Project –University Admit Eligibility Predictor | | |
| 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: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - 2 3 0 75 Accuray Score- 96.25000 Recall score-100.00000 Roc score- 70.00000 | Model evaluation [135]: from sklearn.metrics import accuracy_score,recall_score,roc_auc_score,confusion_matrix [136]: print("\nAccuracy score: %f" %(accuracy_score(y_test,y_pred)*100)) Accuracy score: 96.250000 [137]: print("Recall score: %f" %(recall_score(y_test,y_pred)*100)) Recall score: 100.000000 [138]: print("ROC score: %f\n" %(roc_auc_score(y_test,y_pred)*100)) ROC score: 70.000000 [139]: print(confusion_matrix(y_test,y_pred)) [[2 3] | | |
| 2. | Tune the Model | Model- Logistic Regression | training and testing the model Logistic regression [130]: import importlib.util from sklearn import datasets from sklearn import linear_model from sklearn.linear_model import LogisticRegression from sklearn.model_selection import train_test_split [131]: cls = LogisticRegression(random_state=0,max_iter=1000) [132]: lr=cls.fit(x_train,y_train) [133]: y_pred = lr.predict(x_test) [134]: y_pred [134]: array([True, | | |