Project Development Phase Model Performance Test

| Date | 15 November 2022 |
|---------------|--|
| Team ID | PNT2022TMID29098 |
| Project Name | Project - Corporate Employee Attrition Analytics |
| Maximum Marks | 10 Marks |

Model Performance Testing:

| S No | Parameter | Values | Screenshot |
|------|-------------------|---|---|
| 1. | Metrics | Classification Model: | Confusion matrix Accuracy |
| | | Confusion Matrix - Accuracy - Score- Classification Report | confusion_matrix(y_test, pred) array([[1126, 1], [42, 154]]) Importing Accuracy score package to calculate the score of Prediction [33] from sklearn.metrics import accuracy accuracy_score(y_test,pred) 0.9674981103552532 The ML Model predicts the Testing Data with high Accuracy(97.50%) This is the Best fit model for given data |
| 2. | Tune the Model | Hyper parameters Number of trees - Number of features | Importing Label Encoder [1] from skilearn.preprocessing import tabelEncoder for column in df.columns: if df(column).dtype==mp.number: continum else: df(column)-tabelEncoder().fit_transform(df(column)) /usr/local/lib/python3.7/dist-packag This is separate from the ipykerne |