Project Development Phase
Model Performance Test

Date	15 November 2022
Team ID	PNT2022TMID43140
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 - Score- Classification Report
			Confusion matrix Accuracy
			
			`import math, time, random, datetime`
			
			`# data analysis and wrangling`
			`import pandas as pd`
			`import numpy as np`
			`from pandas_profiling import ProfileReport`
			
			`# visualization`
			`import seaborn as sns`
			`import matplotlib.pyplot as plt`
			`plt.style.use('seaborn-whitegrid')`
			
			`#import for interactive plotting`
			`import plotly.offline as py`
			`py.init_notebook_mode(connected=True)`
			`import plotly.graph_objs as go`
			`import plotly.tools as tls`
			`import plotly.figure_factory as ff`
			`from plotly.subplots import make_subplots`
			`%matplotlib inline`

2.	Tune the Model	**Hyper parameters** Number of trees - Number of features	**Data Wrangling** `[ ] print(classification_report(y_test, predictions))` precision recall f1-score support 0 0.90 0.96 0.93 375 1 0.64 0.42 0.51 66 accuracy 0.88 441 macro avg 0.77 0.69 0.72 441 weighted avg 0.86 0.88 0.87 441