Project Development Phase Model Performance Test Applied Data Science

Date	10 November 2022		
Team ID	PNT2022TMID08646		
Project Name	Project – University Admit Eligibility Predictor		
Maximum Marks	s 10 Marks		

Model Performance Testing:

Performance metrics

S.No.	Parameter	Values	Screenshot
1.	Metrics	Regression Model:	
		MAE = 0.0522	In [at]: from sklearn.ensemble import GradientBoostingRegressor model = GradientBoostingRegressor() model.fift(x train, y train)
		MSE = 0.0050	Out[41]: gradientBoostingRegressor() In [42]: model.score(x_test,y_test)
			Out[42]: 0.79362656265593
		RMSE = 0.0713	In [43]: y_nredictmmodel.predict(x_test) In [44]: from sklearn.metrics import mean_squared_error, r2_score,mean_absolute_error
		R2 score =0.9486	<pre>import numpy as np print('Mean Maboulte Error:', mean_absolute_error(y_test, y_predict)) print('Mean Squared Error:', mean_squared_error(y_test, y_predict)) print('Mean Squared Error:', np.sqrt(mean_squared_error(y_test, y_predict))) Mean Absolute Error: 0.052217649227599916 Mean Squared Error: 0.052217649227599916 Mean Squared Error: 0.050860607503743213 Not Mean Squared Error: 0.0731867147833753</pre>
			143 True 143 True 357 True 266 True
		Classification Model: Confusion Matrix = [[1 5] [1 53] Accuracy Score= 90.0000 Recall score= 98.1481 ROC AUC Score= 57.407	In [51]: from sklearm.metrics import accuracy_score, recall_score, roc_auc_score, confusion_matrix

