## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID21686
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 -0.0515199999999999976, MSE -0.005147544125000005, RMSE -0.07174638753972219, R2 score -0.6803475400971135	from sklearn.metrics import mean_squared_error, r2_score,mean_absolute_error print('Mean Absolute Error:', mean_absolute_error(y_test, y_pred)) print('Mean Squared Error:', mean_squared_error(y_test, y_pred)) print('Root Mean Squared Error:', np.sqrt(mean_squared_error(y_test, y_pred))) print('r2 score:',r2_score(y_pred,y_test))  Mean Absolute Error: 0.05151999999999999999999999999999999999
2.	Tune the Model	Hyperparameter Tuning – Cross Validation Validation Method – GridSearchCV method	<pre>from sklearn.model_selection import GridSearchCV import warnings warnings.filterwarnings('ignore') parameters = {     'n_estimators': [100, 150, 200, 250, 300],     'max_depth': [1,2,3,4], } clf = GridSearchCV(estimator = rgr, param_grid = parameters, cv = 3) clf.fit(X_train, y_train) print(clf.best_score_) 0.7584872527312757</pre>