Project Development Phase
Model Performance Test

Date	19 NOvember 2022
Team ID	PNT2022TMID03961
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 - 0.04439100712864568 , MSE –0.003969262204179716 RMSE - ,0.063 R2 score - 0.8279343840569254 **Classification Model:** Confusion Matrix - , Accuray Score- & Classification Report -	

2.	Tune the Model	Hyperparameter Tuning - Validation Method -	

```python
from sklearn import datasets
from sklearn.tree import DecisionTreeClassifier
from sklearn.model_selection import StratifiedKFold, cross_val_score

X, y = datasets.load_iris(return_X_y=True)

clf = DecisionTreeClassifier(random_state=42)

sk_folds = StratifiedKFold(n_splits = 5)

scores = cross_val_score(clf, X, y, cv = sk_folds)

print("Cross Validation Scores: ", scores)
print("Average CV Score: ", scores.mean())
print("Number of CV Scores used in Average: ", len(scores))
```

```
Cross Validation Scores:  [0.96666667 0.96666667 0.9        0.93333333 1.        ]
Average CV Score:  0.9533333333333334
Number of CV Scores used in Average:  5
```