

Project Development Phase
Model Performance Test

Date	24 November 2022
Team ID	PNT2022TMID15407
Project Name	Efficient Water Quality Analysis and Prediction Using Machine Learning
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	Regression Model: RMSE	Provided below

Screenshots:

Testing of model - LinearRegression

```
In [41]: from sklearn import metrics  
print(np.sqrt(metrics.mean_squared_error(y_test,ypred)))  
7.351241284016909
```

Testing of model - DecisionTreeRegressor

```
In [44]: from sklearn import metrics  
print(np.sqrt(metrics.mean_squared_error(y_test,ypred)))  
2.793612159252081
```

Testing of model - RandomForestRegressor

```
In [47]: from sklearn import metrics  
print(np.sqrt(metrics.mean_squared_error(y_test,ypred)))  
1.86744887095169
```