Project Development Phase Model Performance Test

Team ID	PNT2022TMID18314	
Project Name	Predicting the energy output of wind turbine	
	based on weather condition	

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot	
1.	Metrics	Regression Model:	<pre>from sklearn.metrics import mean_absolute_error as mae #calculate MAE mae=mae(y_test, y_pred) mae 1]: 2.4285714285714284 import numpy as np def mse(actual, pred): actual, pred = np.array(y_test), np.array(y_pred) return np.square(np.subtract(y_test,y_pred)).mean() mse(y_test,y_pred) 2]: 17.0 import numpy as np def rmse(actual, pred): actual, pred = np.array(actual), np.array(pred) return np.sqrt(np.square(np.subtract(actual,pred)).mean()) rmse(y_test,y_pred) 3]: 4.123105625617661</pre>	

2. Tune	Tune the Model	Hyperparameter Tuning - n_estimators = 750,	Out[88	#FInding accuracy from sklearn.metrics import r2_score acc=r2_score(y_test,y_pred) acc B]: 0.911978369754824 mble import RandomForestRegressor
2. Tune	the Model		: from sklearn.ense RFR= RandomForest RFR.fit(x_train,y	B]: 0.911978369754824 mble import RandomForestRegressor Regressor(n_estimators = 750, max_depth = 4, max_leaf_nodes = 500, random_state = 1)