Project Development Phase Model Performance Test

Date		
Team ID	592000	
Project Name	Project – T20-Totalitarian:Mastering score	
	predictions	
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: 1.Decesion tree regressor MAE – 4.137309897781102 MSE137.6454437796061 RMSE 11.732239504016533	1 Decision Tree Regressor - Model Evaluation Mean Absolute Error (MAE): 4.137309897781102 Mean Squared Error (MSE): 137.6454437796061 Root Mean Squared Error (RMSE): 11.732239504016533	
		2.Linear Regression- MAE-13.231253750636858 MSE-311.2042685497275 RMSE-17.64098264127391	2 Linear Regression - Model Evaluation Mean Absolute Error (MAE): 13.231253750636858 Mean Squared Error (MSE): 311.2042685497275 Root Mean Squared Error (RMSE): 17.64098264127391	
		3.Random Forest- MAE- 4.5038041368379815 MSE-59.72223492599992 RMSE-7.7280162348431904	3 Random Forest Regression - Model Evaluation Mean Absolute Error (MAE): 4.5038041368379815 Mean Squared Error (MSE): 59.72223492599992 Root Mean Squared Error (RMSE): 7.7280162348431904	
		4.KNeighborsRegressor MAE-7.7280162348431904 MSE-203.2539267015707 RMSE14.256715144154725	4 KNR - Model Evaluation Mean Absolute Error (MAE): 9.900349040139616 Mean Squared Error (MSE): 203.2539267015707 Root Mean Squared Error (RMSE): 14.256715144154725	
2.	Tune the Model	Hyperparameter Tuning – MAE-14.763365662866732 MSE-383.20455178342854 RMSE-19.57561114712459	1 Support Vector Regression - Model Evaluation Mean Absolute Error (MAE): 14.763365662866732 Mean Squared Error (MSE): 383.20455178342854 Root Mean Squared Error (RMSE): 19.57561114712459	
		Validation Method – SVM- SUPPORT VECTOR MACHINE		