Project Development Phase Model Performance Test

Date	16 November 2023	
Team ID	Team-592664	
Project Name	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: MAE - , MSE - , RMSE - , R2 score -	The Regression metrics are: MSE: 42.58478785861209 MAE: 4.11531679731367 R-squared: 0.9594444804497875
2.	Tune the Model	Hyperparameter Tuning — GRU layer=50 units Activation function='relu' Optimizer='adam' Loss Function='MSE' Epoch=50 Batch size=32 Validation Method — Early Stopping Scaling of data using minmaxscaler Reshaping of data Uning=70%, Valid ation=20%, Testing= 10%	# Use early stopping early_stopping = EarlyStopping(monitor='val_loss', patience=3, restore_best_weights=True) # Split the data into training, validation, and testing sets (70% training, 20% validation, 10% testing % train, % temp, y_train, y_temp = train_test_split(features, target, test_size=0.3, random_state=42) % val, % test, y_val, y_test = train_test_split(% temp, y_temp, test_size=1/3, random_state=42) # Standardize the features using Min-Max scaling scaler = MinMaxScaler() %train_scaled = scaler.fit_transform(%_train) % X_val_scaled = scaler.transform(%_val) %test_scaled = scaler.transform(%_test) **Train_scaled = scaler.transform(%_test)