Project Development Phase (Model Performance Test)

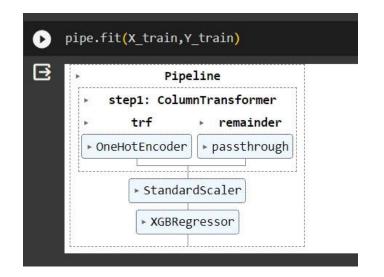
Date	20-11-2023
Team ID	Team-592914
Project Name	T20 Totalitarian: Mastering Score Predictions
Maximum Marks	10 Marks

S.No.	Parameter	Values	Screenshot

1. Metrics

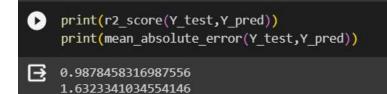
Regression Model:

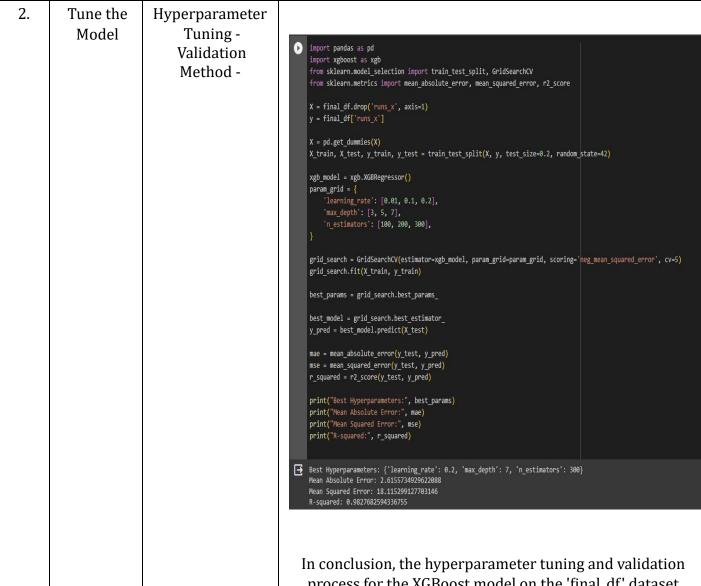
Utilizing preprocessed data and the chosen features, the XGBoost model has been implemented. XGBoost is an advanced gradient boosting algorithm employing decision trees as its fundamental learners.



Classification Model:

Assess the effectiveness of the XGBoost model by gauging its performance using metrics like mean absolute error, mean squared error, and R-squared.





In conclusion, the hyperparameter tuning and validation process for the XGBoost model on the 'final_df' dataset resulted in the identification of optimal parameters. The model exhibits lower Mean Absolute Error (MAE) and Mean Squared Error (MSE) values, indicating minimal prediction errors. Moreover, the R-squared value, approaching 1, signifies a strong alignment between the model and the dataset. This suggests that the chosen XGBoost model, with the fine-tuned hyperparameters, is robust and performs exceptionally well, making it an excellent fit for the project's objectives.