

Cricket Score Predictor

--- Using Machine Learning

*Introduction

This project focuses on using machine learning to predict the outcome of Indian Premier League (IPL) cricket matches, known for their unpredictability. Through a multivariate regression-based approach, the study identifies key factors influencing match results and proposes seven attributes for prediction. Various machine learning models, including Random Forest and Decision Tree, are trained and evaluated in real time scenarios. The project demonstrates the effectiveness of machine learning in sports analysis, offering insights into enhancing prediction accuracy in dynamic sporting environments like the IPL.

*Features

1.Machine Learning Models : Employing various machine learning models such as Random Forest and decision tree for training and evaluating prediction performance.

2.Effectiveness Of Machine Learning : Demonstrating the effectiveness of machine learning techniques in sports analysis,specifically in predicting match outcomes in dynamic sporting environments like the IPL.

3.Identification Of Key Factors : Identifying and analyzing key factors that influence the results of IPL matches,crucial for accurate prediction.

4.Insights Of Prediction Enhancement : Offering insights gained from the study to enhance prediction accuracy in unpredictable events like the IPL , contributing to advancements in sports analytics .

5.Real-Time Scenario Evaluation : Conducting real time Scenario evaluations to assess the performance and reliability of the machine learning models in predicting IPL match outcomes.

*Stack

- Python
- Machine Learning
- Matplotlib , Seaborn ,Scikit-learn,NumPy and Pandas
- Jupyter Notebook

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