# INDIRA GANDHI UNIVERSITY MEERPUR REWARI

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

# Certificate of Completion

This is to certify that the major project entitled **ML FOR IPL** carried out by **Mr. Shivam Sharma**, student of **Bachelor of Technology in Computer Science and Engineering 8th Semester**, **of Indira Gandhi University, Meerpur, Rewari** is a satisfactory account of the bonafide work under my supervision, is recommended towards the end of his/her 8th semester of B.Tech (CSE).

**Dr. Ajay Kumar Project Incharge**

# DECLARATION BY THE CANDIDATE

I, **Shivam Sharma,** hereby declare that the major project work entitled **ML FOR IPL project** is an authenticated work carried out by me at **Indira Gandhi University, Meerpur, Rewari** for the partial fulfillment of the award of the degree of **B.Tech,** and this work has not been submitted for similar purpose anywhere else.

**Date: Shivam Sharma**

**Place: IGU MEERPUR** **200011015023**

**BTech 8th SEM**

# ACKNOWLEDGEMENT

I am grateful to Dr. Savita Sheoran, Associate Professor & Chairperson, Department of CSE INDIRA GANDHI UNIVERSITY. Her infinite patience, continual encouragement, constant and energetic supervision, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project documentation.

I would like to express my heartiest gratitude to Dr. Ajay Kumar Professor in Department of CSE, for his kind help to finish our project and also to other faculty members and the staff of CSE department of INDIRA GANDHI UNIVERSITY.

I would like to thank our entire course mate in Indira Gandhi University, who took part in this discussion while completing the course work.

I must also acknowledge with due respect the constant support and patients of my parents and friends.

Finally, the successful completion of this report would not have been possible without the support and assistance of many individuals and organizations. I would like to take this opportunity to offer my earnest admiration to every one of them.

**Shivam Sharma 200011015023**

**B.Tech 8th SEM**

# Abstract

The Indian Premier League (IPL) has become a global phenomenon in cricket, attracting top players and massive viewership. In parallel, fantasy cricket leagues associated with IPL have gained immense popularity, allowing participants to create virtual dream teams based on player performances. However, accurately predicting star players for fantasy teams remains a challenge due to the dynamic nature of cricket and the multitude of influencing factors.

The "ML for IPL: Predicting Star Players for Your Dream Team" project aims to revolutionize fantasy cricket team selection by leveraging machine learning techniques. The project's primary objective is to develop a robust machine learning model capable of predicting top-performing players in IPL matches based on historical performance data and various player attributes.

The methodology involves several key steps. First, a comprehensive dataset containing historical IPL match data, player statistics, match conditions, and other relevant features will be collected and preprocessed. Feature engineering techniques will be applied to extract meaningful insights and create predictive features contributing to player performance prediction. Machine learning algorithms such as Random Forest and Gradient Boosting will be trained and evaluated using appropriate metrics to ensure accuracy and reliability.

The project will culminate in the development of a user-friendly interface where users can input upcoming IPL match details and receive predictions for star players, along with performance rating metrics. The interface will empower fantasy cricket enthusiasts to make informed decisions in team selection, optimizing their chances of success in fantasy leagues associated with IPL.

It's important to note that this project is strictly academic, and we do not encourage or promote any kind of betting or real money involvement. This project is solely for educational and research purposes, showcasing the application of machine learning in sports analytics without any commercial intent.

The significance of this project lies in its potential to enhance the fantasy cricket experience, providing participants with data-driven predictions and insights. By bridging the gap between data analytics and sports entertainment, this project contributes to the evolution of sports analytics and data-driven decision-making in the context of cricket and fantasy sports.

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