# Analysis and Predictions of Winning Indian Premier League match using Machine Learning Algorithm

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**Abstract**: *India's most popular sport is cricket and is played across all over the nation in different formats like T20, ODI, and Test. The Indian Premier League (IPL) is a national cricket match where players are drawn from regional teams of India, National Team and also from international team. Many factors like live streaming, radio, TV broadcast made this league as popular among cricket fans. It is an model developed to predict the winner of an ipl match using the previous data set . In this model we have used the technologies like prediction algorithm , analyzing algorithm in python language on the basis of previous 10 years ipl match data set which is collected by kaggle.com basically it contains details like team played , venue , winner , toss winner , toss decision win by runs , win by wicket and many other about 18 different fields . at the end the model gives us the accuracy of about 94 %.*

**Keywords:** Data analysis, prediction model, IPL Data analysis, Visualization of data, processing technique, Model Evaluation & development , mechanic learning prediction, Dateset manipulation, Accuracy, match winner, IPL team, player Performance ,previous performance, Machine Learning, Random Forest, Classification Algorithm, Cricket Prediction

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DOI: 10.48175/568

ISSN
2581-9429
IJARSCT

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**DOI: 10.48175/568**

ISSN
2581-9429
IJARSCT

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