



INSIGHTS OF IPL

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ABSTRACT

- Cricket runs through every Indian's blood; without Cricket one cannot imagine India. Cricket is also the most famous outdoor sport in India as there is a huge craze of it in every age group of people. Also, India has been very much the pioneer of the modern day cricket that is the T20, it can be said that because of the Indian Premier League the advent of T20 started in the world. In the modern era with such high technologies available in every sport, one of the most important things is statistical data. This report mainly focuses on the results of the matches taking various factors into consideration such as the toss analysis, season wise number of matches, team performances and also the venues where the matches were played.

INTRODUCTION

Indian Premier League is one of the most celebrated events in the history of Cricket. Fast paced games and glamour are the two of the standout features of IPL, a lot of money is involved in this event. We thought of using the data set of IPL from 2008 to 2020 and predicting the end results of the matches taking various factors into consideration such as the toss analysis, season wise number of matches, team performances and also the venues where the matches were played. We have taken 786 matches into consideration and till date a total of 14 teams have taken part in the IPL. In this era where the competition between bat and ball has increased to a greater extent, the teams should be prepared from the outside before going into the field. Sports Analytics plays an important role for the team's preparation, using this tool the analyst informs the players, coaches and the other staff for decision making on the field, such as whether to choose to bat or ball taking the previous matches into consideration. In Sports Analytics two of the most important aspects are as follows: - On-Field and Off-Field analysis. On-field analytics becomes important for the players to make key decisions on the field. Data plays a key role in analytics.

DATA COLLECTION:

The data has been collected from www.kaggle.com. It is published by Prateek Bharadwaj. The dataset contains data of every match that has been played from 2008 to 2020. It has 17 columns and 816 rows. Each row represents details of a unique match, and each column represents a specific attribute. The dataset gives information about the city where the match was played, on which date the match was played, player of the match, venue of match (stadium), teams which played the match, toss winner, toss decision, match winner, match result, margin of win, super over, was D/L applied, names of the umpires of the match.

DATASET:

Dataset Description

Attributes	Description
Id	Unique Match ID as per ESPN cricinfo
City	City in which match was played
Date of Play	Date on which match was played
Player of match	Player who played best in the match
Venue of play	Name of the stadium in which match was played
Neutral venue	Was venue neutral?
Team1	Name of team 1
Team2	Name of team 2
Toss_winner	Which team won the toss
Toss_decision	Team which won the toss and decided to bat or field
Winner	Name of team which won the match
Result	team which won won by chasing the target or opposite
Result margin	By how many runs team won or by how many wickets team won.
Eliminator	Was there a super over?
Method	was D/L method used or not?
Umpire 1	Name of umpire 1
Umpire 2	Name of umpire 2

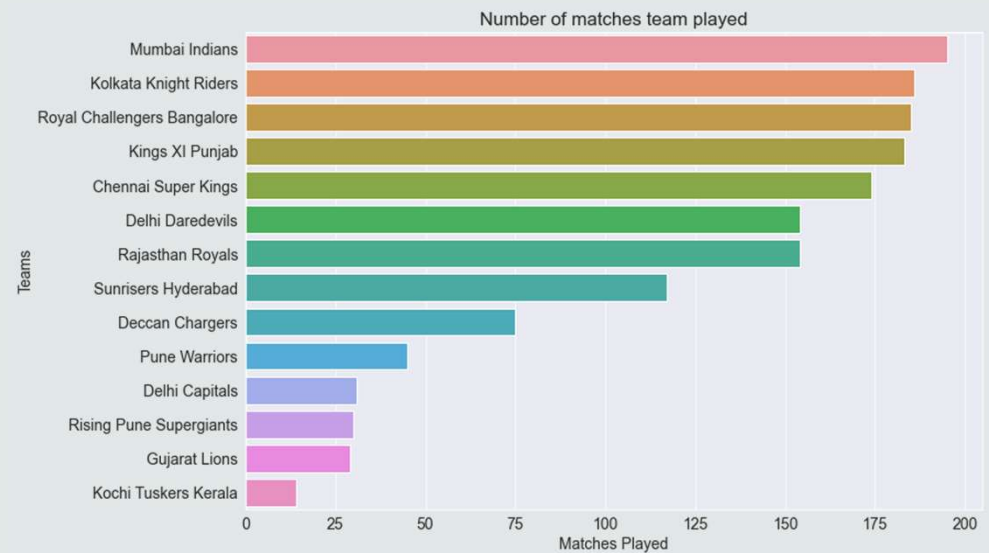
Data Analysis and Visualization:

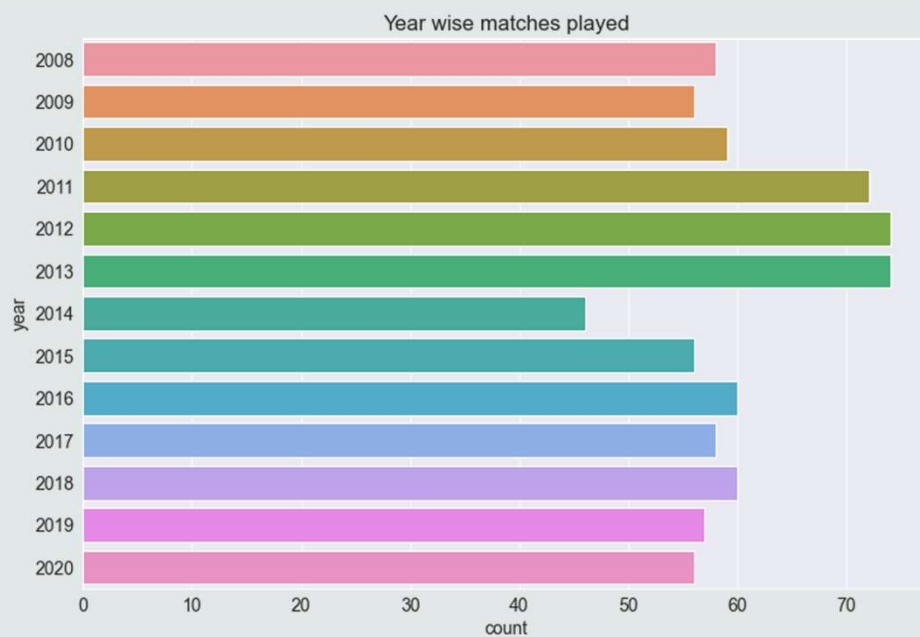
Exploring the data and lets get some insights

TOSS Analysis

- 786 matches played from 2008 to 2020
- In 477(60.69%) matches, teams decided to BAT first
- In 309(39.31%) matches, teams decided to BALL first
- Out of 786 matches, in 408(51.9%) matches team who won the toss also won the match.
- Data shows that team who won the toss, and choose to BALL first are more likely to win than those who choose to batt first.

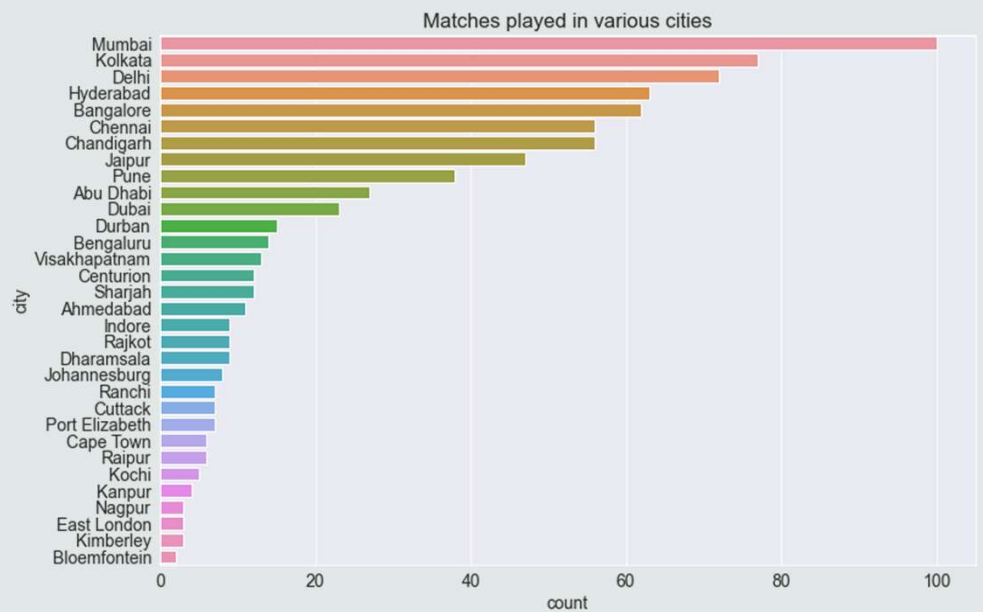
Number of Matches Played by Teams.(2008 - 2020)

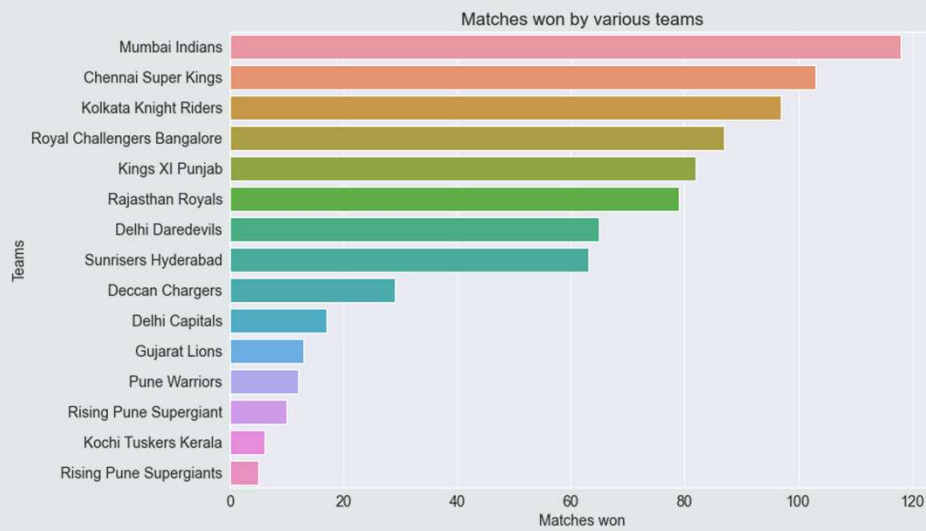




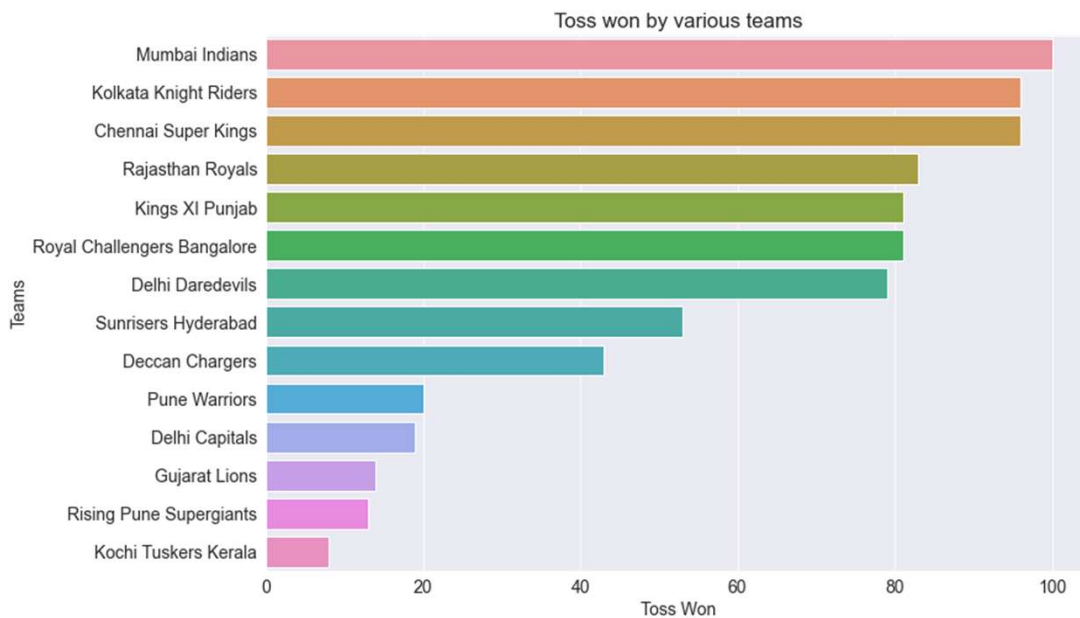
*Year wise
matches
Played*

Matches Played in various Cities



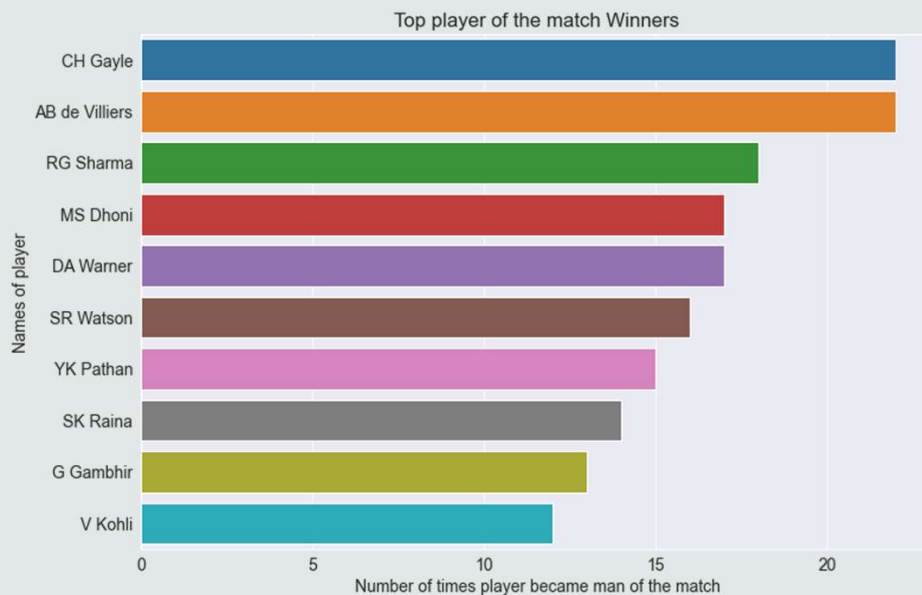


*Number of
Matches won
by various
Teams*

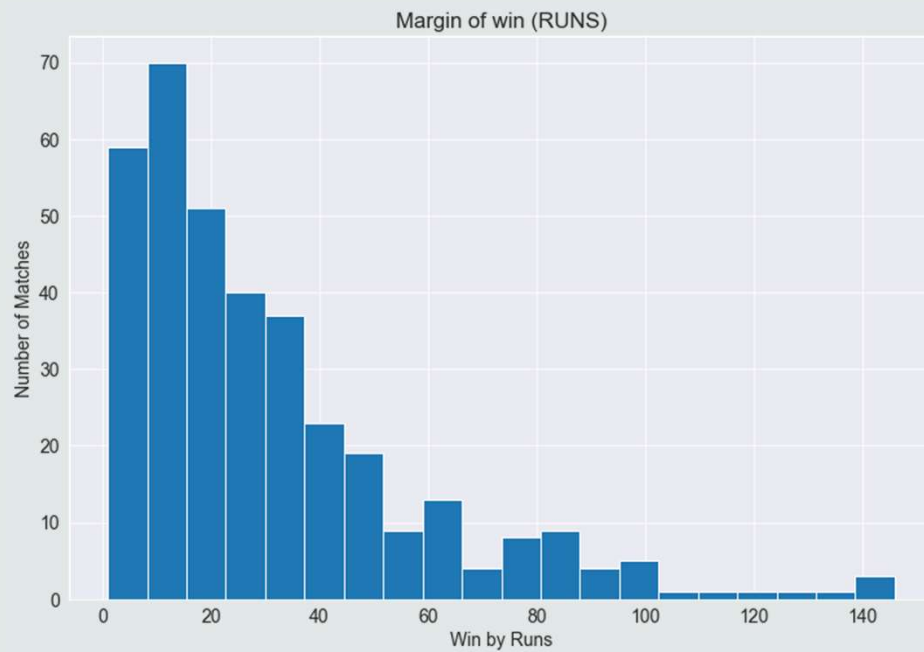


*TOSS won
by Teams*

TOP Players- Number of Times Players won Man of the Match



Why IPL is so Interesting?



As the graph suggests that the margin of win by runs is quite low, which in turn suggests the matches that have a result is quite nerve wrecking.

The margin of win by wickets is average around 4 to 8 wickets, so as the graph shows most of the matches are nail-biting.

