Cricket Analytics

Problem statement:

Identify the best possible Team players for Mumbai Indians for the next Auction using previous year's information.

Project Objectives:

To create a dashboard with various filtering and sorting options by year, teams etc

Project scope:

This project includes the analysis of IPL maths data analysis and finding the sorting batsman and bowlers in descending order based on performance. Providing users a dashboard with filter options which they can use to see the performance of players in recent years.

Function requirements:

- Rank batsmen by year and overall based on ability
- Rank bowlers by year and overall based on ability
- Rank the most valuable player in IPL over all the years
- Visualize this in an intuitive Power BI Dashboards
- Find Similar Batsmen and Bowler

Dataset Details:

- **id:** Unique number for Matches
- **inning:** Inning attribute i.e 1 or 2
- **over:** Over count i.d 0 to 19
- **batsman:** Batsman on the Strike
- **non_striker:** Batsman on the Non-striker end
- **bowler:** Bowler bowling that particular over
- **batsman_runs** : runs scored by batsman i.e 0 to 6
- **extra_runs:** Extra runs
- **total_runs:** runs scored by batsman + extra runs
- **no_boundary**: Boundaries i.e 4 or 6
- **is_wicket :** 0 - not out / 1 - out
- **dismissal_kind :** Wicke)
- **Player_dismissed:** Name of Dismissed Player

- **fielder :** fielder's name

Timeline :

0 - Week:

Requirement gathering and BRD creation

1 - Week:

Data Pre-processing and Data Analysis

2 - Week:

Creating KPIS

3 - Week:

To create dashboard and user manual for dashboard

KPIS:

Batsman:

Strike rate:(Total runs scored/total balls faced)*100

Strike rate against fast bowler=total runs scored against spinners/totals balls faced

Strike rate against spinners=total runs scored against fast bowled/total balls faced

Boundary percent=(total runs scored with boundary/total runs scored)*100

% dismissal against the spinner=(total dismissal against spinner/total dismissal)*100

% dismissal against the fast bowler=(total dismissal against fast/total dismissal)*100

Bowlers KPI:

average ball required to take first wicket=

% of dot ball=(total dot balls/total balls played)*100

%boundary balls=(total boundary balls/total ballbowled)*100