



# Analyzing Indian Premier League 2022 Statistics

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## Introduction

Cricket is one of the most watched sports of the world. It is majorly played between commonwealth member countries and has a massive fan following in Asia, Australia, and England.

At the heart of the Cricket fever, lies the Indian Premier League. Played between 10 teams consisting of players from various nations, IPL is like India's very own Super Bowl. At any given time, the average viewership count of an IPL match is 12 million.

In 2022, new teams were added to the latest version of the Indian Premier League. Gujarat Titans won it big in 2022, dethroning the reigning champions Chennai Super Kings, despite Gujarat being new to the tournament.

A cricket match can be divided into 2 parts: the batting part and the fielding part, which includes the bowling. We will analyze these statistics to learn how did Gujarat Titans win despite spending lower.

## Overview

Before the commencement of each season, an auction takes place where teams offer competing bids to acquire players that would be a good fit for the team.

Each player has a base offer price and a price at which the player is sold, called the **market value** or sold price.

The performance of each team can be evaluated based on the runs made by its batsmen and the wickets taken by its bowlers.

In this graph, we observe the performance of the teams based on the total runs and wickets scored by the team. The graph also indicates how is the market value of the top-performing players.

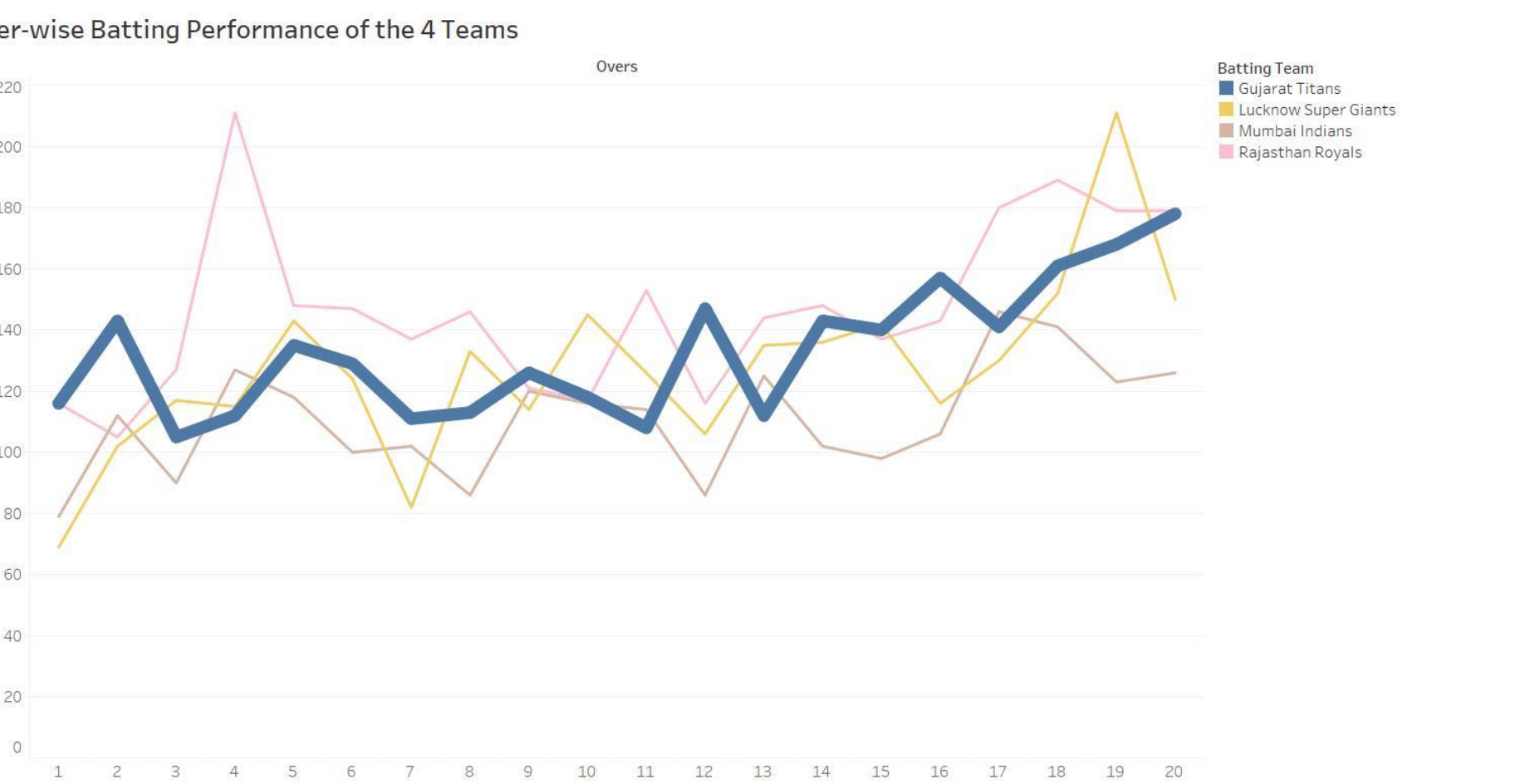
The scope of this project covers the top 3 teams: Gujarat Titans, Rajasthan Royals, Lucknow Super Giants and the bottom-ranked team: Mumbai Indians.

The 7 variables in this data visualization are runs, wickets, teams, players, market value, economy, and strike rate. It is made up of the total runs scored by a batting player from a specific team during the 2022 IPL season. Also included are the wickets taken by the bowlers. The pop size of the bubbles indicates the player's market value. We can also see differences in a good and bad performance, with green indicating acceptable performance and red indicating poor performance. This graph compares the performance of batsmen and bowlers in their respective teams, as well as the differences in performance between teams.

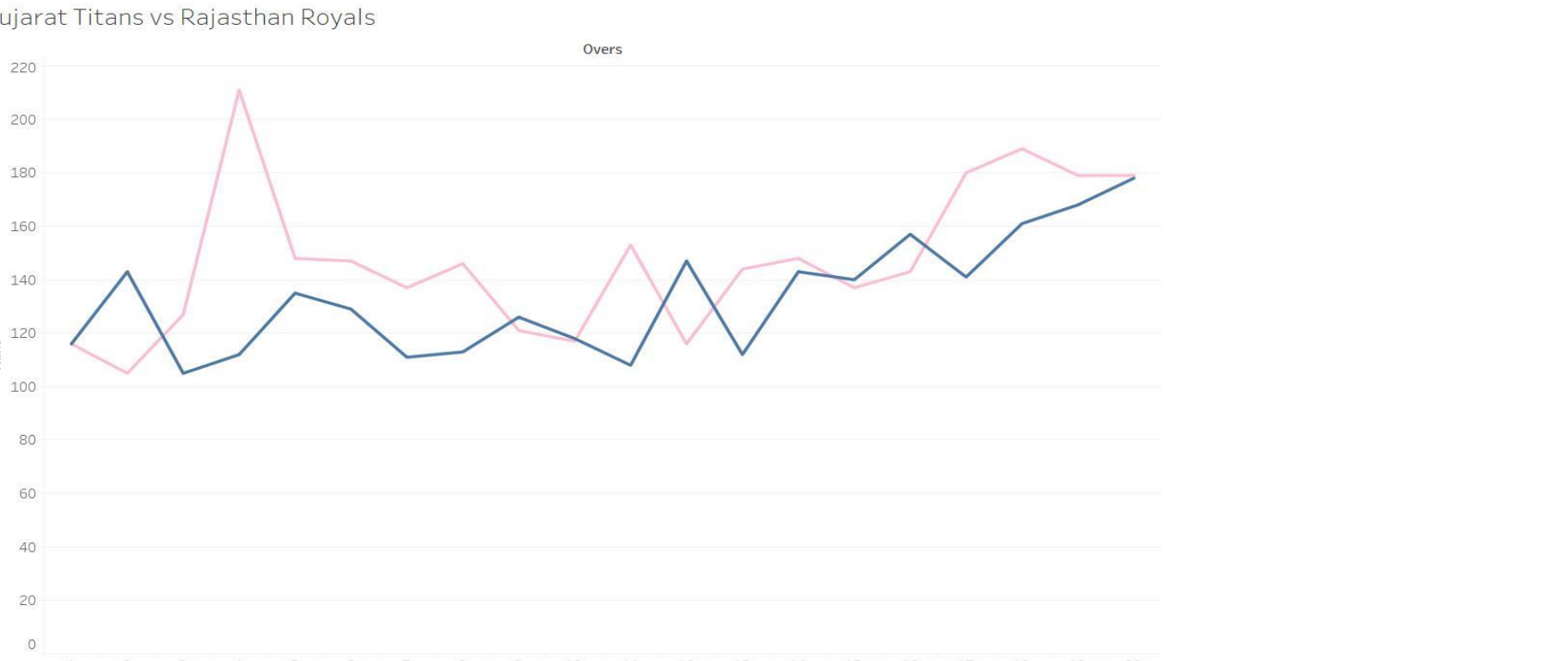


## Over-wise Batting Analysis

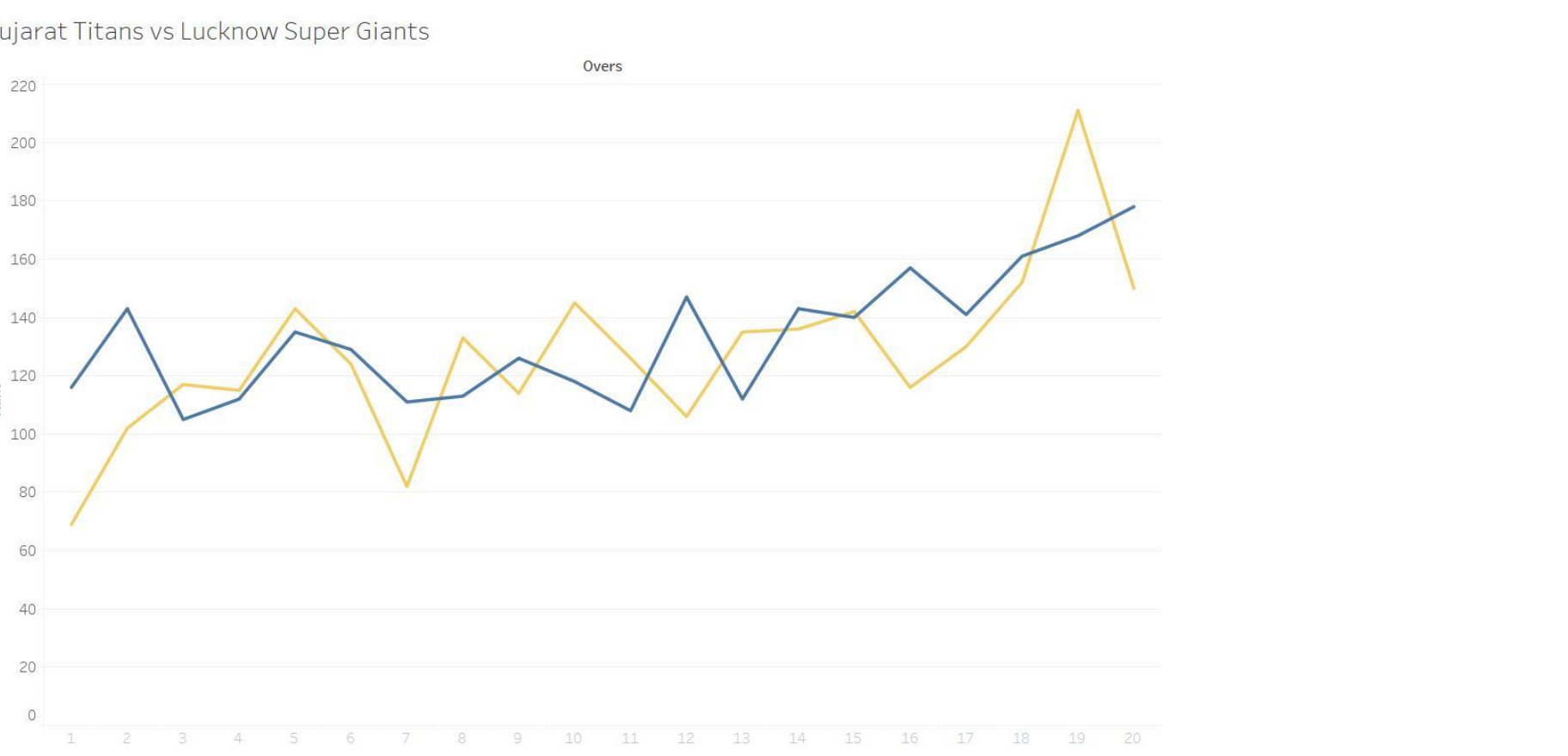
To understand the performance of the team, we will analyze the performance of the batting part of the 4 teams under consideration.



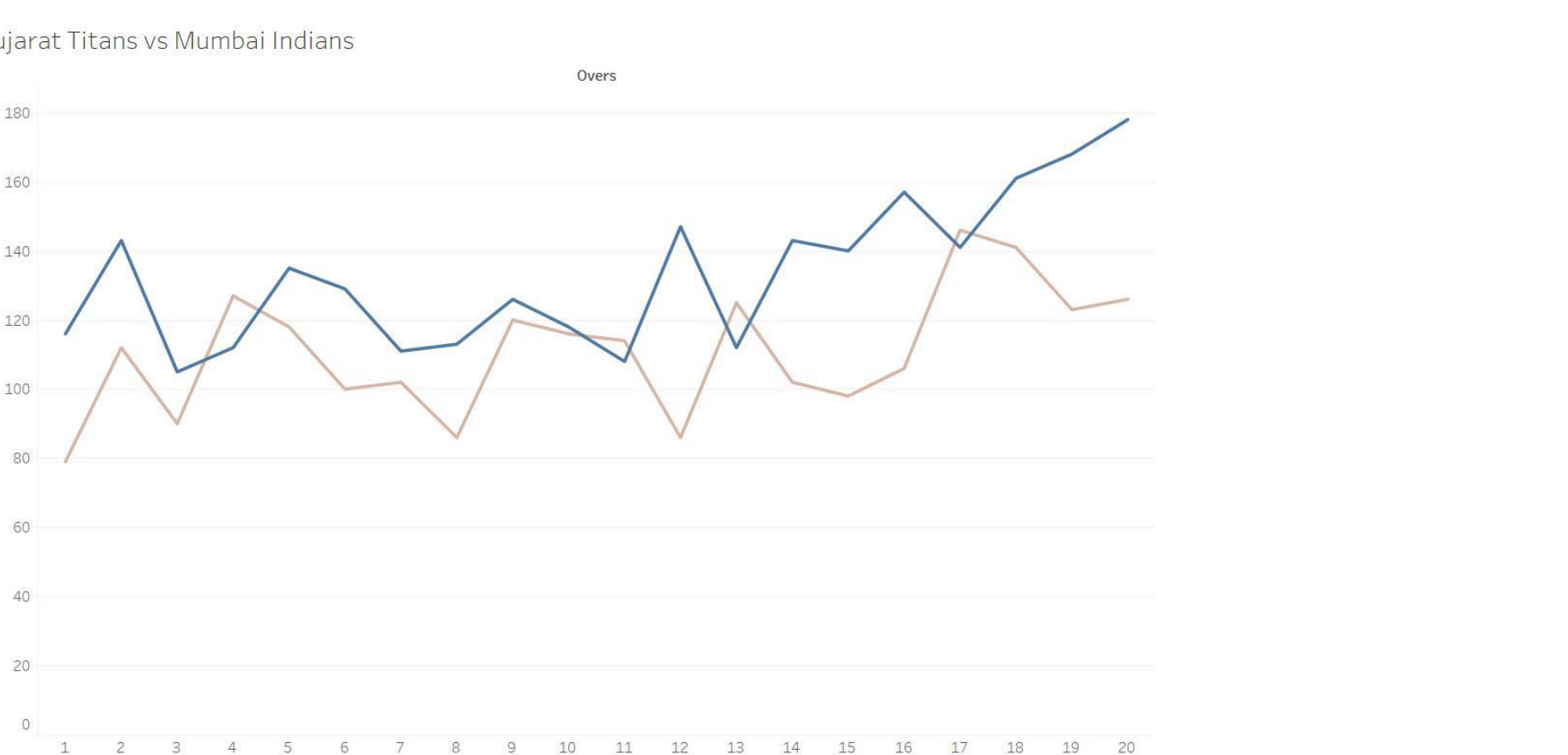
To have a better understanding, we will compare the batting performances using small multiples (Color Legend above)



Rajasthan displays a sudden fall in runs per over following a sudden rise, in contrast to Gujarat's steady rise.



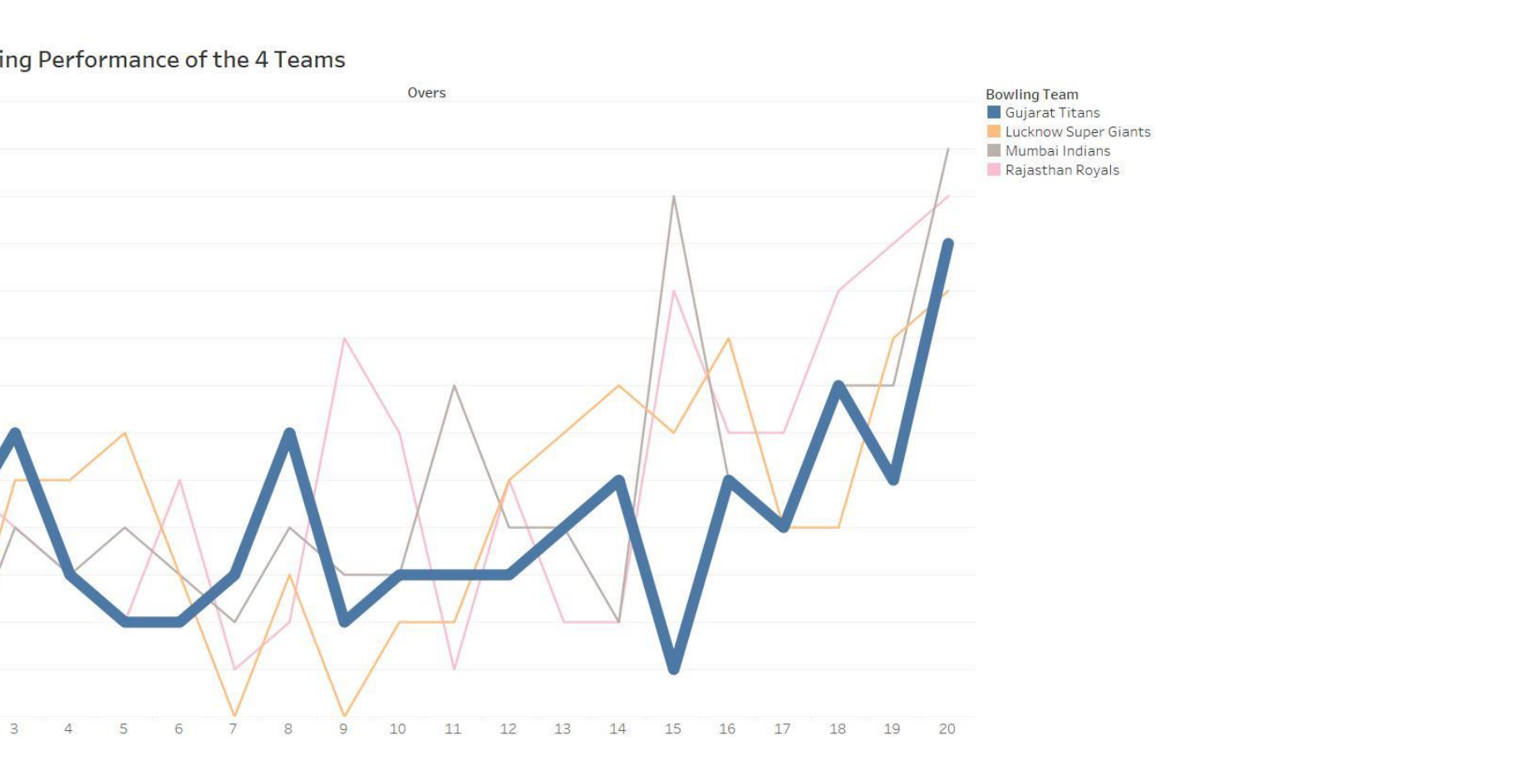
Gujarat Titans have a better overall consistent graph, indicating the steady run buildup throughout the overs



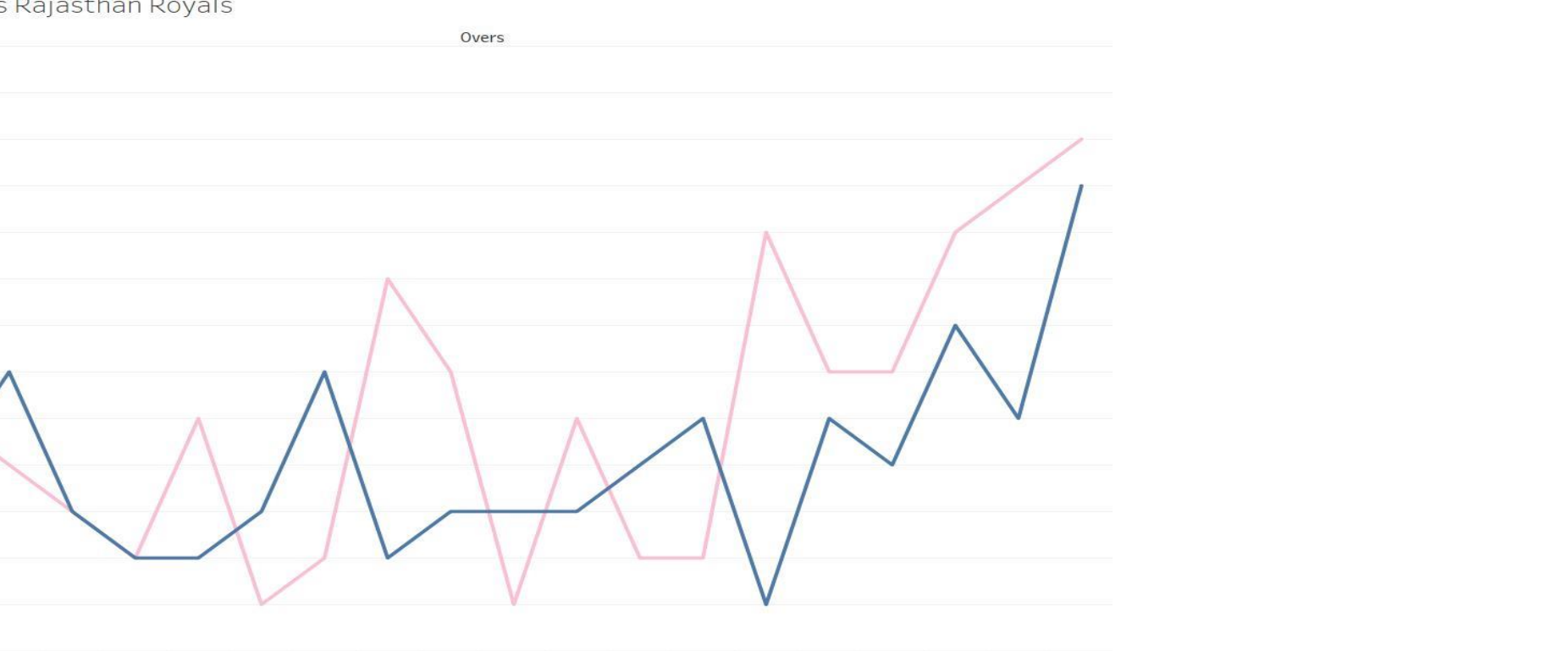
Mumbai Indians can be seen having the worst over-wise progression

## Over-wise Bowling Analysis

To understand the performance of the team, we will analyze the performance of the bowling part of the 4 teams under consideration.



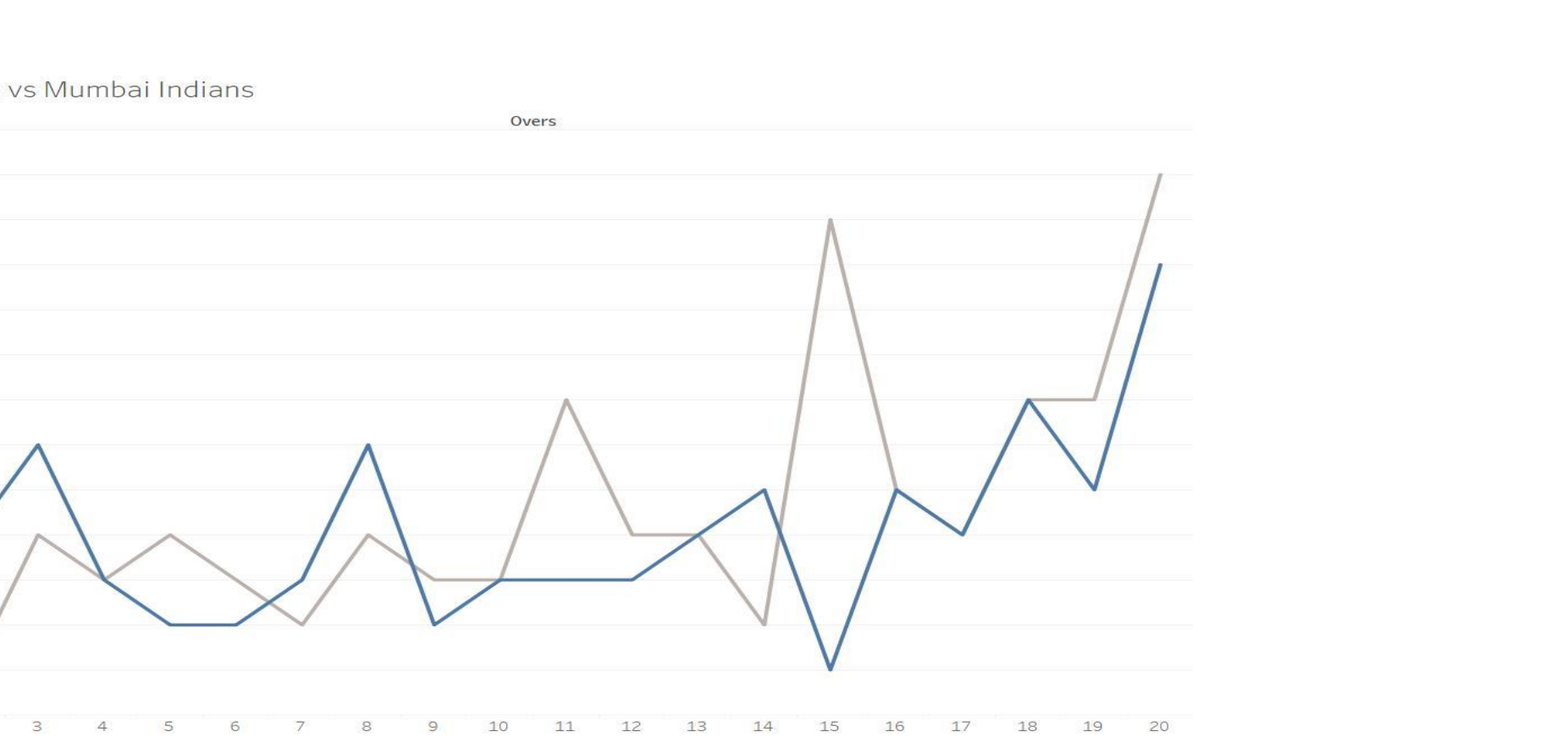
To have a better understanding, we will compare the bowling performances using small multiples (Color Legend above)



Rajasthan follows a sideways trend, while Gujarat Titans has a rather stable rising trend.



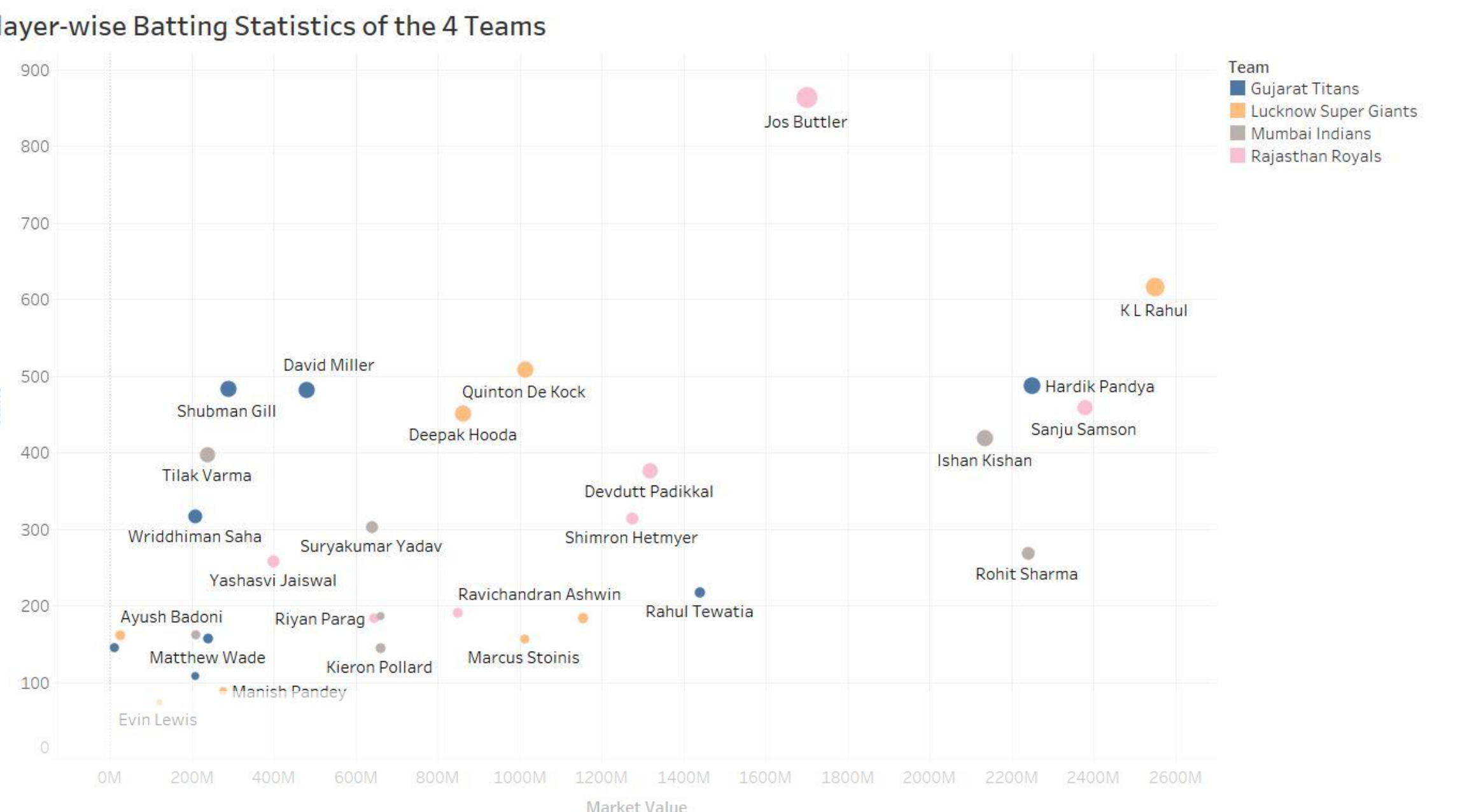
Gujarat Titans have a better overall consistent graph, whereas Lucknow can be seen picking up slightly after a consistent shortfall of wickets.



Mumbai Indians can be seen having a somewhat better progression than Gujarat initially, but then Gujarat catches up to Mumbai Indians.

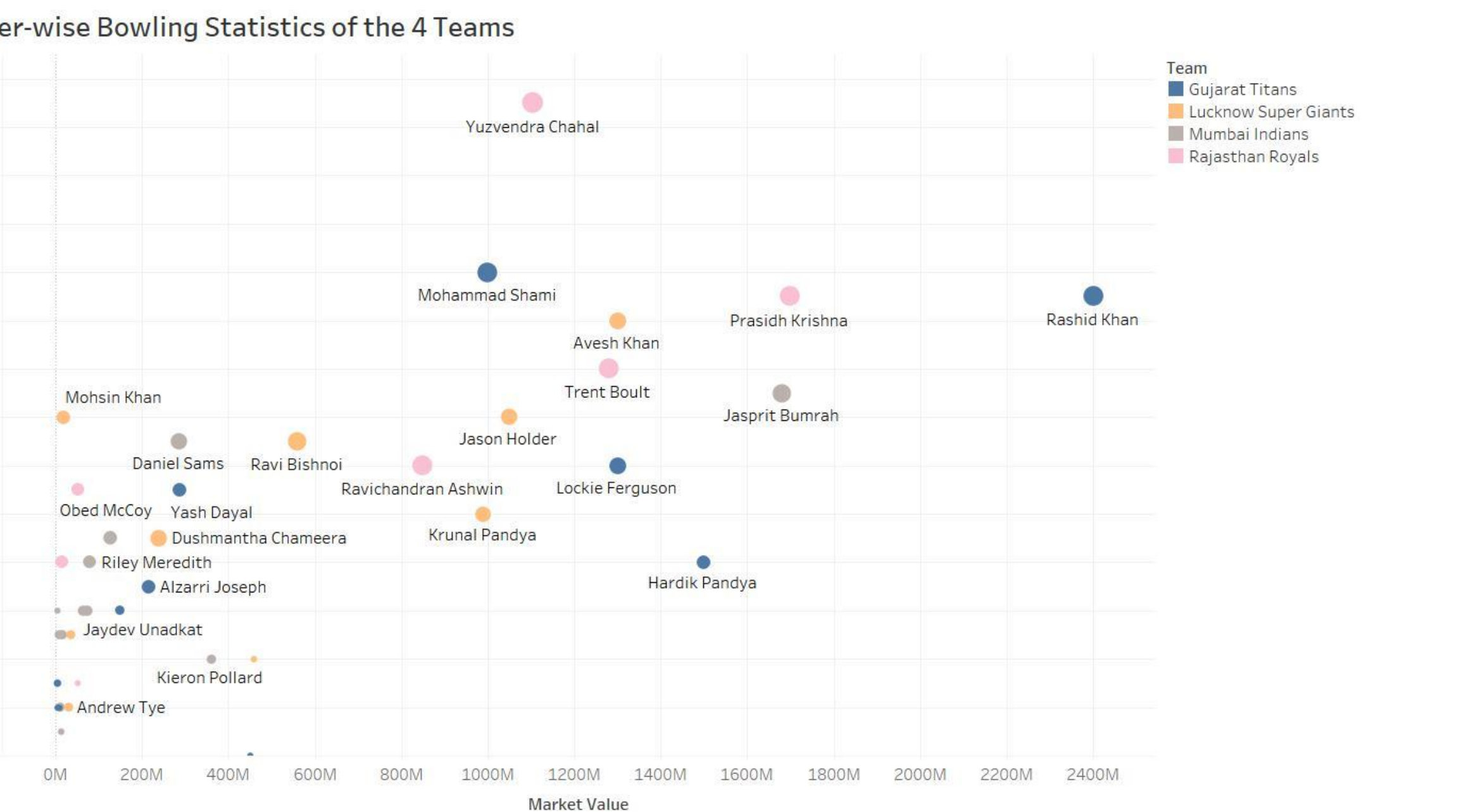
## Player-wise Batting Analysis

This graph indicates the top-performing batsmen and as per their market value, classified by team by color Jos Buttler won the orange cap, which is the award given for most runs. He is the highest on the runs scale. We can observe that Mumbai spent a lot on players but didn't get a lot out of it.



## Player-wise Bowling Analysis

This graph indicates the top-performing bowlers and as per their market value, classified by team by color. Yuzvendra Chahal won the purple cap, which is the award given for most wickets. He is highest on the wickets scale. We can observe which team has players which delivered a success as opposed to team which did not spend well.



## Conclusion

Mumbai Indians spent the most money but even then, they couldn't win the trophy. The players bought from auction did not perform as good as one would have hoped.

The abysmal performance by Mumbai Indians can be observed through the overs played, which can be rivaled by Gujarat Titans who can be seen performing the best among the teams selected.

We understand from the graphs used in this project, that why and how did Gujarat win despite being new and not spending the highest.

## Ranking of the 4 teams under consideration

### Teams Overview

Team	Team Ranking	Team Value (In INR)	Total Runs	Total Wickets
Gujarat Titans	1	894,500,000	2,517	90
Rajasthan Royals	2	877,500,000	2,807	97
Lucknow Super Gian..	3	810,000,000	2,405	92
Mumbai Indians	10	903,000,000	2,100	82

## Tournament Overview



### Top 3 Teams:



### Last Team:

