

Every sports event generates a lot of data which we can use to analyze the performance of players, teams, and many highlights of the game. We are able to summarize the event using data generated by the ICC Men's T20 world cup just finished. In this article, we will explain how to analyze a sports event like the T20 World Cup. The purpose of this article is to walk anyone through the process of using Python for T20 World Cup 2022 analysis. The dataset, we have used for the T20 World Cup 2022 analysis is collected manually from the ICC's official website.

Here are some rows and columns from the given dataset as

venue	team1	team2	stage	TW	TD	FIS	FIW	SIS
SCG	NZ	Au	Super12	Au	F	200	3	111
OS	Ag	En	Super12	En	F	112	10	113
BA	Ir	SL	Super12	Ir	Bat	128	8	133
MCG	Pk	In	Super12	In	F	159	8	16

Table 1: Data of T20 world cup 2022

Now, let's look at the number of matches won by each team in the world cup:

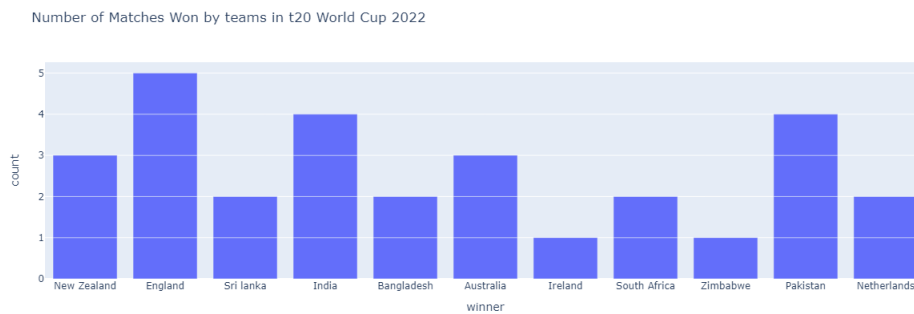


Figure 1: Number of Matches Won by teams in t20 World Cup 2022

As England won the t20 world cup 2022, England won five matches. And Both Pakistan and India won 4 matches.

Now let's have a look at the number of matches won by batting first or second in the t20 world cup 2022:

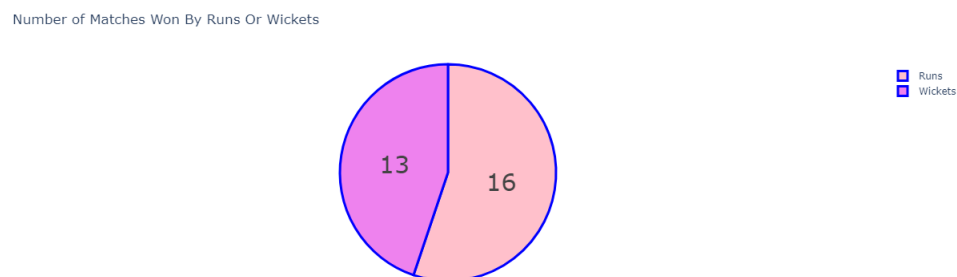


Figure 2: Number of Matches Won By Runs Or Wickets

So in the t20 world cup 2022, 16 matches were won by batting first, and 13 matches were won by chasing. Now, lets have a look at the toss decisions by teams in the world cup:

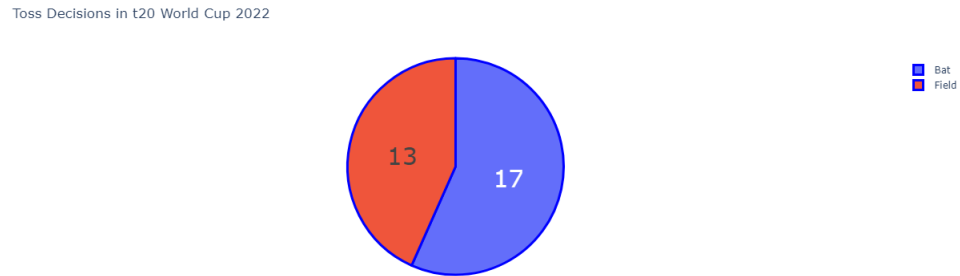


Figure 3: Toss Decisions in t20 World Cup

So in 17 matches, the teams decided to bat first, and in 13 matches, the teams chose to field first. Now lets have a look at the top scorers in the t20 world cup 2022:

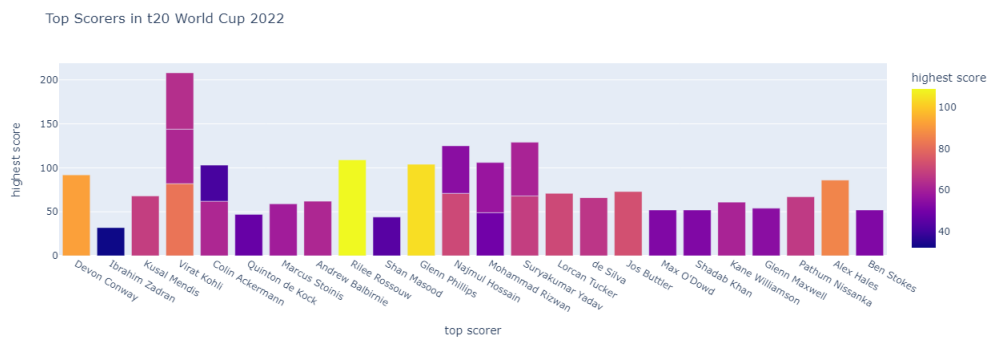


Figure 4: Top Scorers in t20 World Cup 2022

So, Virat Kohli scored the highest in 3 matches. Undoubtedly, he was the best batsman in the t20 world cup 2022. Now lets have a look at the number of player of the match awards in the world cup:



Figure 5: Player of the Match Awards in t20 World Cup

Virat Kohli, Sam Curran, Taskin Ahmed, Suryakumar Yadav, and Shadab Khan got the player of the match in

2 matches. No player got the player of the match award in more than two matches.

Now lets have a look at the bowlers with the best bowling figures at the end of the matches:

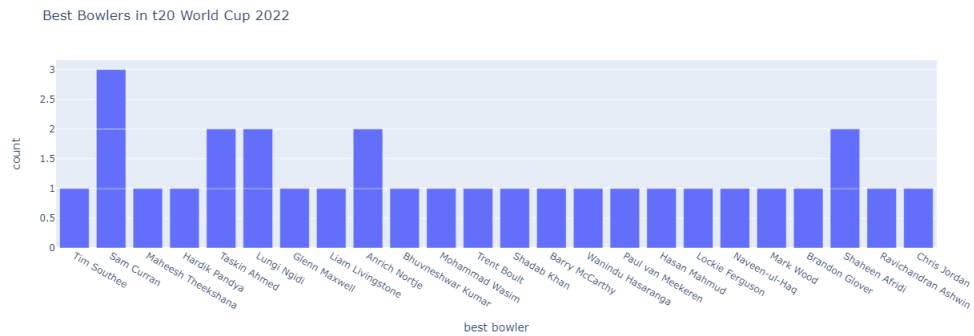


Figure 6: Best Bowler in t20 World Cup 2022

Sam Curran was the only best bowler in 3 matches. Undoubtedly, he deserved to be the player of the tournament. Now lets compare the runs scored in the first innings and second innings in every stadium of the t20 world cup 2022:

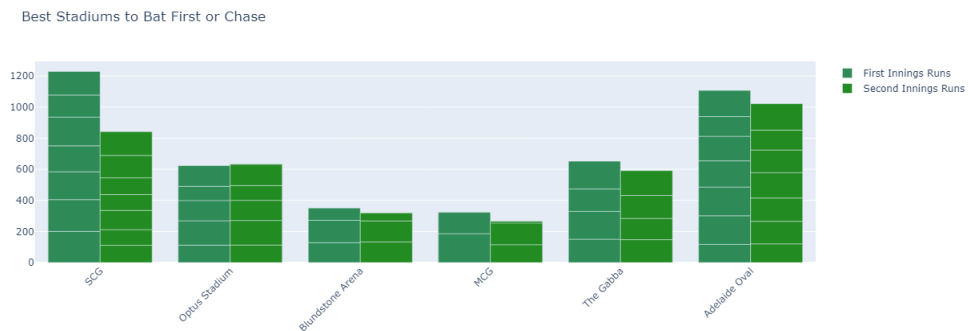


Figure 7: Best Stadium to Bat First or Chase

So SCG was the only stadium in the world cup that was best for batting first. Other stadiums didnt make much difference while batting first or chasing.

Now lets compare the number of wickets lost in the first innings and second innings in every stadium of the t20 world cup 2022:

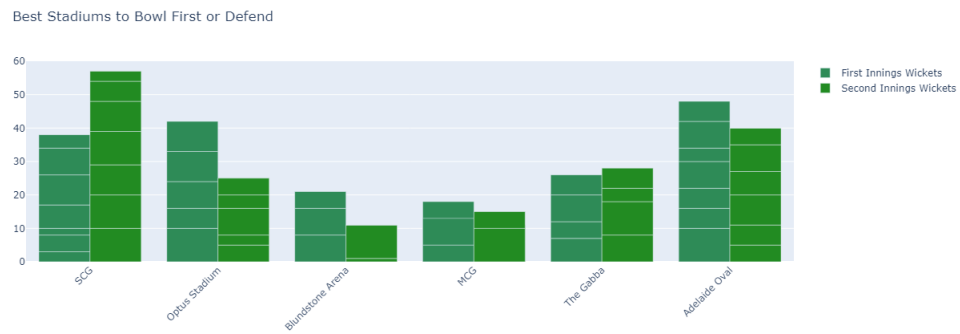


Figure 8: Best Stadium to Bowl First or Defend

SCG was the best stadium to bowl while defending the target. While the Optus Stadium was the best stadium to bowl first.

Summary

So some highlights of the t20 world cup 2022 we found from our analysis are

- England won the most number of matches
- Virat Kohli scored highest in the most number of matches
- Sam Curran was the best bowler in the most number of matches
- More teams won by batting first
- More teams decided to bat first
- SCG was the best stadium to bat first
- SCG was the best stadium to defend the target in the World Cup
- The Optus Stadium was the best stadium to bowl first