

ICC Men's T20 World Cup 2022 – *Best XI Analysis*

Data-Driven Cricket Analytics

A Comprehensive Analysis for Optimal Team Composition

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01

Executive Summary

Executive Summary

- Analyzed complete **T20 World Cup 2022** tournament data including Qualifier and Super 12 stages.
- Applied systematic player classification across **five strategic roles**.
- Selected optimal **Best XI** based on quantitative performance metrics.
- Achieved superior team statistics: *154.54 strike rate, 39.60 batting average, 6.47 economy rate.*

154.54

Team Strike Rate

39.60

Batting Average

6.47

Economy Rate

02

Key Performance Indicators

Key Performance Indicators



Batting Performance

- **Strike Rate** – Measures scoring speed (*runs per 100 balls*)
- **Batting Average** – Consistency across innings
- **Boundary Percentage** – % of runs from 4s & 6s (aggression indicator)
- **Avg. Balls Faced** – Indicates role (anchor vs. finisher)
- **Batting Position** – Context of performance (top order, middle, finisher)



Bowling Performance

- **Economy Rate** – Runs conceded per over (efficiency & control)
- **Bowling Strike Rate** – Balls per wicket (wicket-taking ability)
- **Dot Ball Percentage** – Pressure through non-scoring deliveries
- **Bowling Average** – Runs conceded per wicket
- **Bowling Style & Role** – Fast, spin, all-rounder (contextual evaluation)

03

Tools and Methodology

Tools and Methodology

Data Source

The player stats were taken from **ESPN Cricinfo**, covering the **ICC Men's T20 World Cup 2022**. I used an already available version of the data, so I could focus on filtering, organizing, and analyzing it.

Player Classification and Selection

Based on the cleaned dataset, I grouped players into roles like openers, middle order, finishers, bowlers, and all-rounders. Metrics like strike rate, average, and boundary percentage helped guide the classification. The final Best XI was selected by comparing role-wise performance and team balance.

Tools Used

I used **Jupyter Notebook** to load the dataset and check key details like data types, null values, and basic stats for player performance. **Power BI** was used for most of the data cleaning and transformation through the Load and Transform section. This helped simplify the dataset for role classification and team selection.

Cleaning and Structuring

I removed unnecessary columns, handled missing values, and adjusted the format to make the dataset easier to work with. Players were filtered based on matches played and key metrics like strike rate, average, and economy to ensure quality data was used.

04

Player Classification System

Player Classification System

1 Power Hitters & Openers

Explosive starts and momentum building.

2 Anchors & Middle Order

Stability and controlled acceleration.

3 Finishers & Lower Order

Effective innings closure.

4 All Rounders

Dual-skill capabilities and strategic balance.

5 Specialist Fast Bowlers

Primary bowling attack foundation.

Power Hitters & Openers

Jos Buttler

England - Right Hand Bat

Avg: 45.00 | SR: 144.23 | Boundary %: 61.33%

Alex Hales

England - Right Hand Bat

Avg: 42.40 | SR: 147.22 | Boundary %: 64.15%

Kusal Mendis

Sri Lanka - Right Hand Bat

Avg: 31.86 | SR: 142.95 | Boundary %: 57.40%

Rilee Rossouw

South Africa - Left Hand Bat

Avg: 35.25 | SR: 169.88 | Boundary %: 63.83%

Quinton de Kock

South Africa - Left Hand Bat

Avg: 31.00 | SR: 161.04 | Boundary %: 75.81%

Strategic Value

- **Buttler** provides *consistency* with aggressive approach, ideal anchor-aggressive opener
- **Rossouw** offers the highest strike rate at *169.88* with left-handed variety
- **De Kock** delivers exceptional boundary percentage of *75.81%* with wicket-keeping flexibility
- Combined selection provides multiple opening combinations and tactical options

Anchors & Middle Order

Virat Kohli

India - Right Hand Bat

Avg: 98.67 | SR: 136.41 | Boundary %: 50.00%

Suryakumar Yadav

India - Right Hand Bat

Avg: 59.75 | SR: 189.68 | Boundary %: 66.11%

Lorcan Tucker

Ireland - Right Hand Bat

Avg: 40.80 | SR: 125.15 | Boundary %: 49.02%

Glenn Phillips

New Zealand - Right Hand Bat

Avg: 40.20 | SR: 158.27 | Boundary %: 61.69%

Daryl Mitchell

New Zealand - Right Hand Bat

Avg: 54.50 | SR: 128.24 | Boundary %: 23.85%

Key Strengths

- **Kohli** demonstrates tournament excellence with *98.67 average* and consistent boundary conversion
- **Suryakumar** provides explosive acceleration with tournament-high *189.68 strike rate*
- **Phillips** offers wicket-keeping flexibility combined with aggressive *158.27 strike rate*
- **Mitchell** provides reliability with highest average of *54.50* in middle-order category

Finishers & Lower Order

Curtis Campher

Ireland - Right Hand Bat

Avg: 25.20 | SR: 163.64 | Economy: 9.25

Glenn Maxwell

Australia - Right Hand Bat

Avg: 39.33 | SR: 161.64 | Economy: 6.00

Marcus Stoinis

Australia - Right Hand Bat

Avg: 42.00 | SR: 161.54 | Economy: 9.67

Sikandar Raza

Zimbabwe - Right Hand Bat

Avg: 27.38 | SR: 147.97 | Economy: 6.5

Hardik Pandya

India - Right Hand Bat

Avg: 25.60 | SR: 131.96 | Economy: 8.11

Key Strengths

- **Campher** adds late-innings bursts with a *163.64 SR* despite a modest *25.20 average*
- **Maxwell** delivers explosive intent at *161.64 SR* with sharp control at *6.00 economy*
- **Stoinis** balances power and stability with *42.00 average* and *161.54 SR*
- **Raza** and **Hardik** strengthen depth with dual skills and economies under 8.5

All Rounders

Rashid Khan

Afghanistan - Right Hand Bat, Legbreak Googly

Avg: 54.50 | SR: 128.24 | Boundary %: 23.85%

Sikandar Raza

Zimbabwe - Right Hand Bat, Right arm Offbreak

Avg: 59.75 | SR: 189.68 | Boundary %: 66.11%

Mitchell Santner

New Zealand - Left hand Bat, Slow Left arm Orthodox

Avg: 40.20 | SR: 158.27 | Boundary %: 61.69%

Shadab Khan

Pakistan - Right Hand Bat, Legbreak

Avg: 40.80 | SR: 125.15 | Boundary %: 49.02%

Key Strengths

- **Raza** demonstrates exceptional dual performance with *219 runs* and *10 wickets* across tournament
- **Hardik** provides reliable bowling option with *8 wickets* while maintaining batting capability
- **Maxwell** offers explosive batting with *161.64 strike rate* and reliable spin bowling option
- Combined all-rounder group provides tactical flexibility across multiple match scenarios

Specialist Bowlers & Spin All-Rounders

Sam Curran

India - Right Hand Bat

Avg: 98.67 | SR: 136.41 | Boundary %: 50.00%

Anrich Nortje

India - Right Hand Bat

Avg: 59.75 | SR: 189.68 | Boundary %: 66.11%

Shaheen Shah Afridi

Ireland - Right Hand Bat

Avg: 40.80 | SR: 125.15 | Boundary %: 49.02%

Tim Southee

New Zealand - Right Hand Bat

Avg: 40.20 | SR: 158.27 | Boundary %: 61.69%

Key Strengths

- **Sam Curran** showcases remarkable control with a *50.00% boundary rate* and *88.67 average*
- **Anrich Nortje** brings high impact with a *189.68 SR* and *68.11% boundary rate*
- **Shaheen Afridi** maintains balance and precision with a *125.15 SR* and *40.80 average*
- **Tim Southee** offers clean hitting at *158.27 SR* with a solid *61.68% boundary rate*

05

Comprehensive Team Statistics

Comprehensive Team Statistics

154.54

Strike Rate

39.60

Batting Average

19.71

Average Balls Faced

6.47

Economy Rate

13.09

Bowling Strike Rate

41.15%

Dot Ball Percentage

Key Strengths

- Strike rate significantly exceeds tournament averages
- Bowling statistics indicate consistent pressure and wicket-taking ability
- Balanced performance across batting depth and bowling variety

06

Final Best XI Team Selection

Final Best XI Team Selection

Complete Squad Overview

Jos Buttler

England - Right Hand Bat

Rilee Rossouw

South Africa - Left Hand Bat

Virat Kohli

India - Right Hand Bat

Suryakumar Yadav

India - Right Hand Bat

Glenn Phillips

New Zealand - Wicketkeeper Batter

Marcus Stoinis

Australia - Batting Allrounder

Sikandar Raza

Zimbabwe - Batting Allrounder

Sam Curran

England - Allrounder

Shadab Khan

Pakistan - Allrounder

Shaheen Shah Afridi

Pakistan - Bowler

Anrich Nortje

South Africa - Bowler

Thank You

Thank you for taking the time to explore my project.
Feel free to connect or reach out for collaboration or feedback.

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