BY ML INTERN ROSHANE GOHAR

# Project Name: WORLD CUP 2023 DATA ANALYSIS





### Introduction

World Cup 2023 Data Analysis project. Our endeavor is to immerse ourselves into the realm of cricket, with a keen focus on dissecting the performances of teams and players throughout this esteemed tournament. With a rich dataset at our disposal, brimming with diverse features, we invite you to join us in embarking on a journey of exploratory data analysis (EDA) to unearth meaningful insights and deepen our understanding of the game.

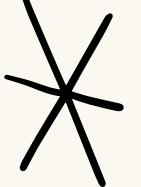
ICC CRICKET WORLD CUP 2023!

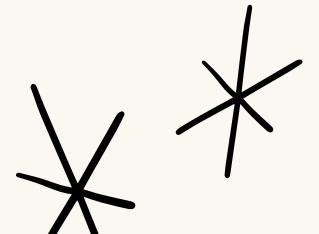
## PROBLEMSTATEMENT:

our mission is clear: to conduct an in-depth exploratory data analysis that unveils the intricate tapestry of team and player performance. Our goal is to decipher the patterns, trends, and standout statistics that offer keen insights into the essence of the game. This analysis will delve into both batting and bowling facets, meticulously examining crucial metrics including runs, wickets, strike rate, economy rate, and other pertinent factors. By navigating through this data landscape, we aim to uncover the nuanced storylines that define cricket's premier tournament.



- 1. Team Performance
  Analysis
  2. Player Performance
  Analysis
  3. Opposition and Ground
  Analysis
  4. Temporal Analysis:



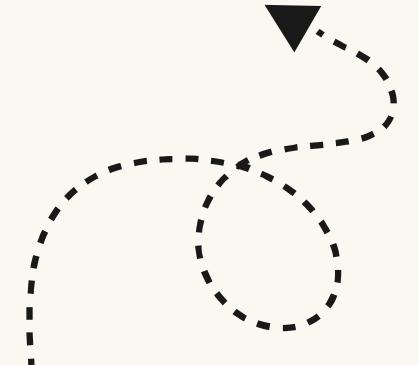


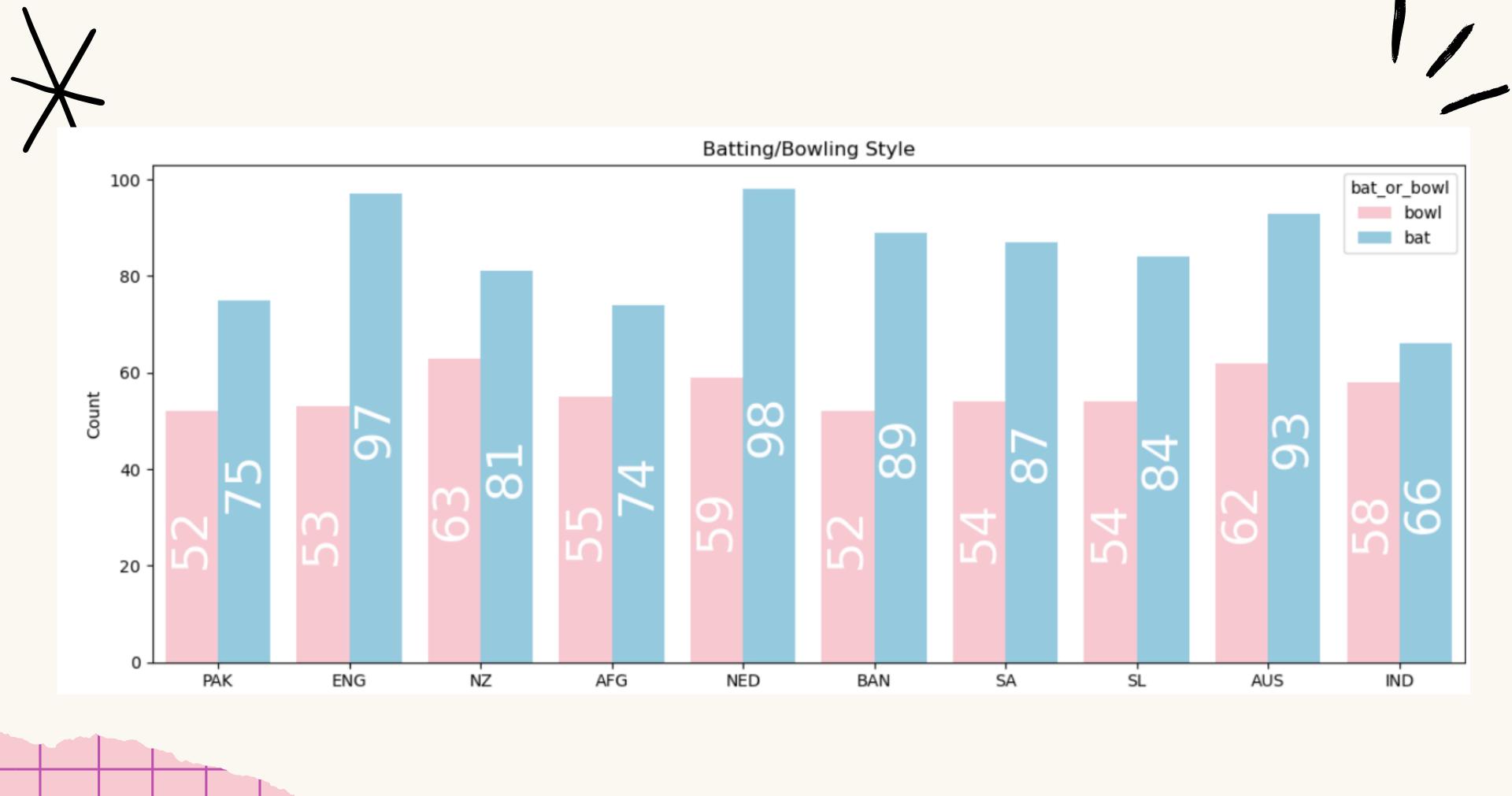
### DATASET

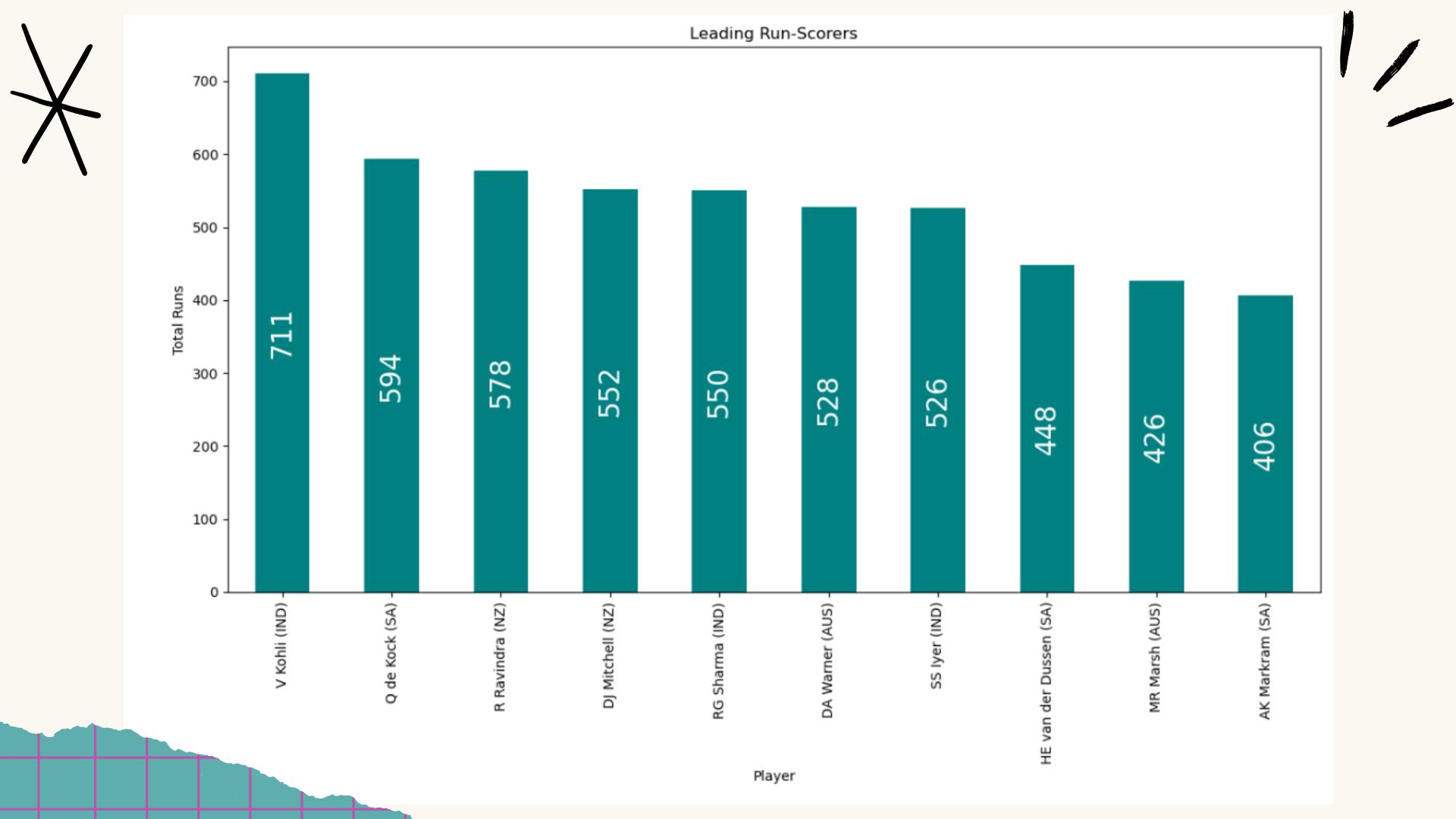
The dataset comprises the following columns:

- team
- player
- bat\_or\_bowl
- bb\_bf (balls bowled or balls faced)
- runs
- wkts (wickets)
- wicketball\_prob
- runs\_per\_ball
- opposition
- ground

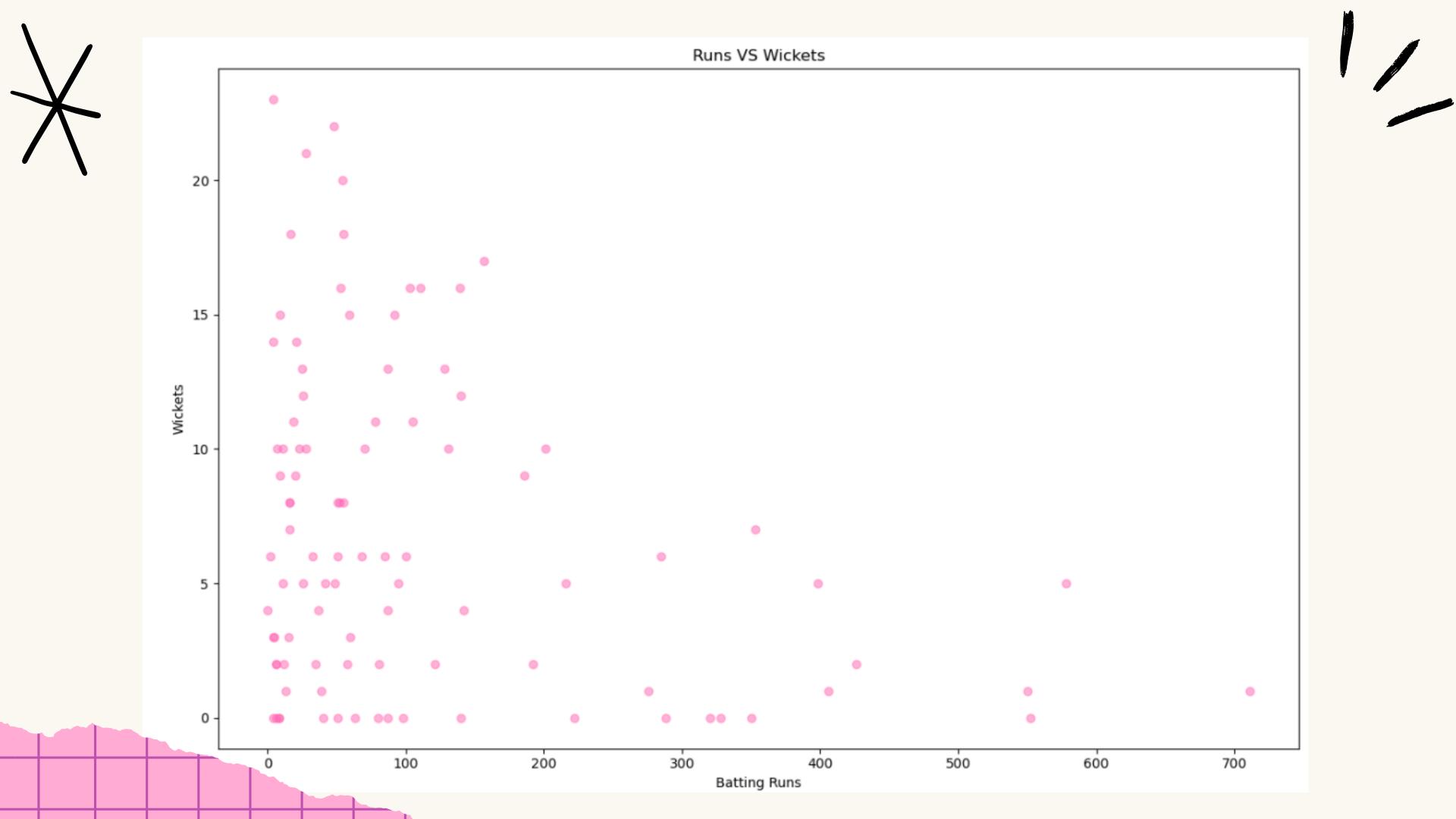
- start\_date
- overs
- mdns (maidens)
- econ (economy rate)
- inns (innings)
- 4s (fours)
- 6s (sixes)
- sr (strike rate)
- not\_out
- mins (minutes)



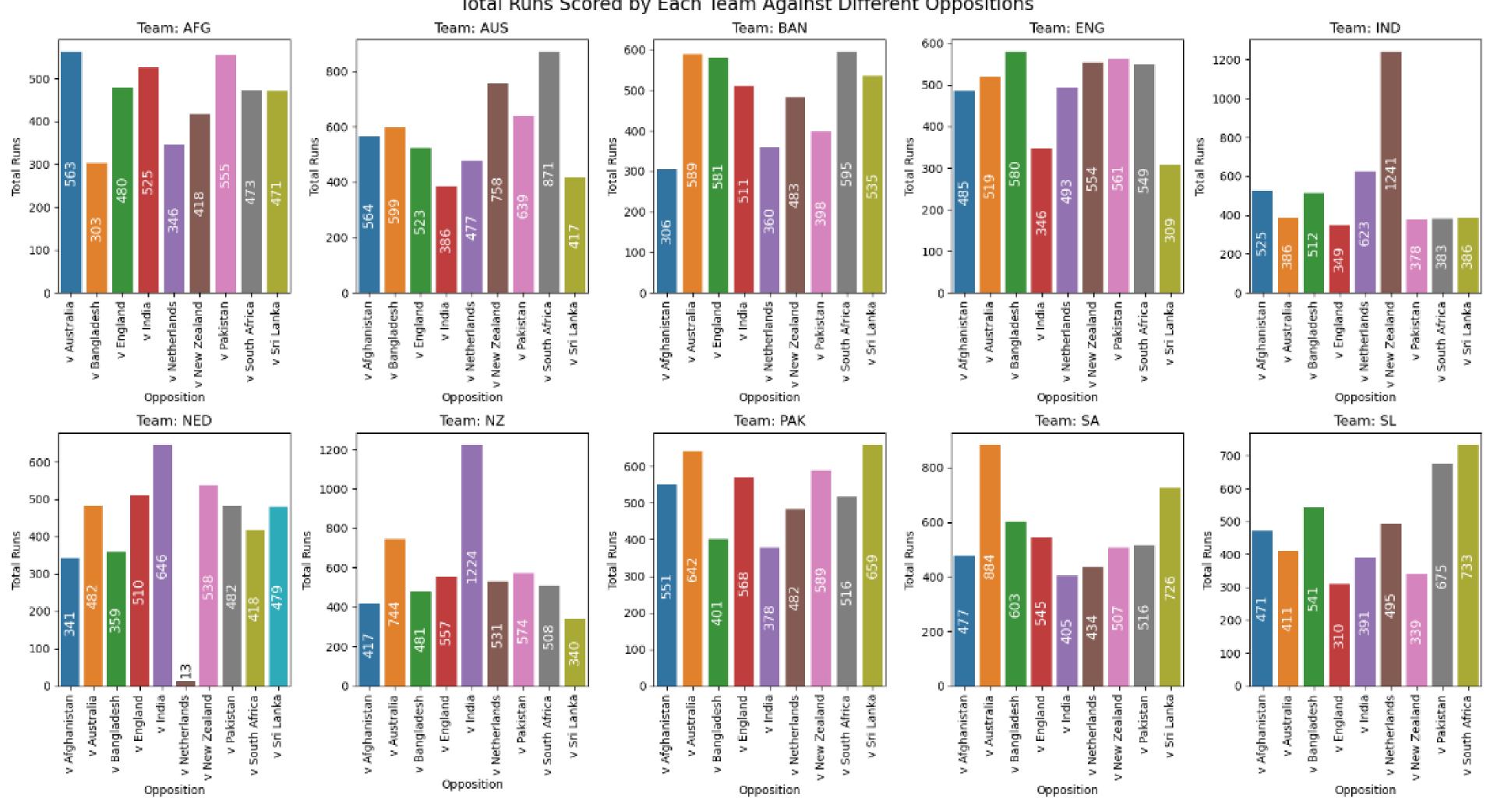




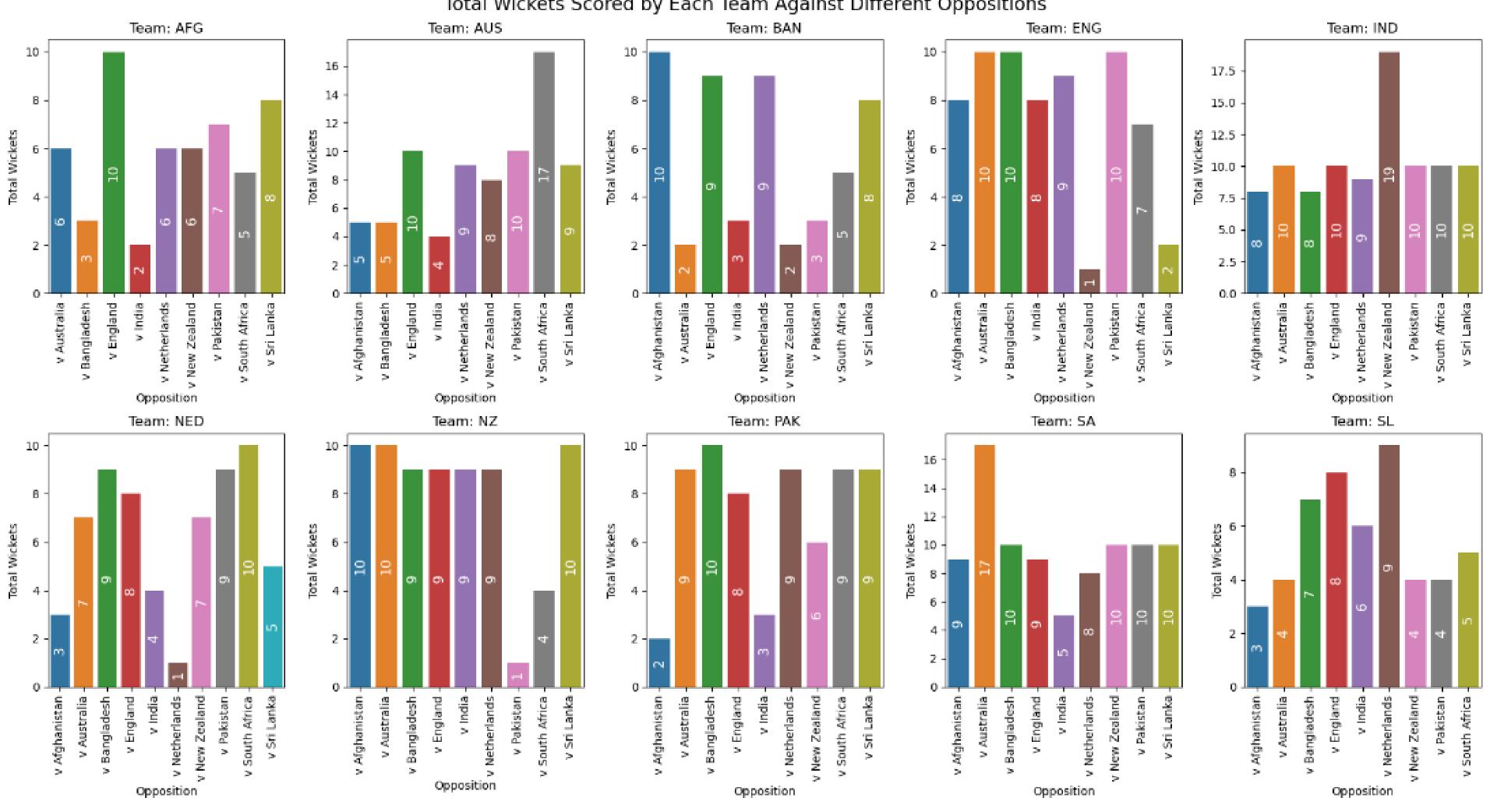




Total Runs Scored by Each Team Against Different Oppositions

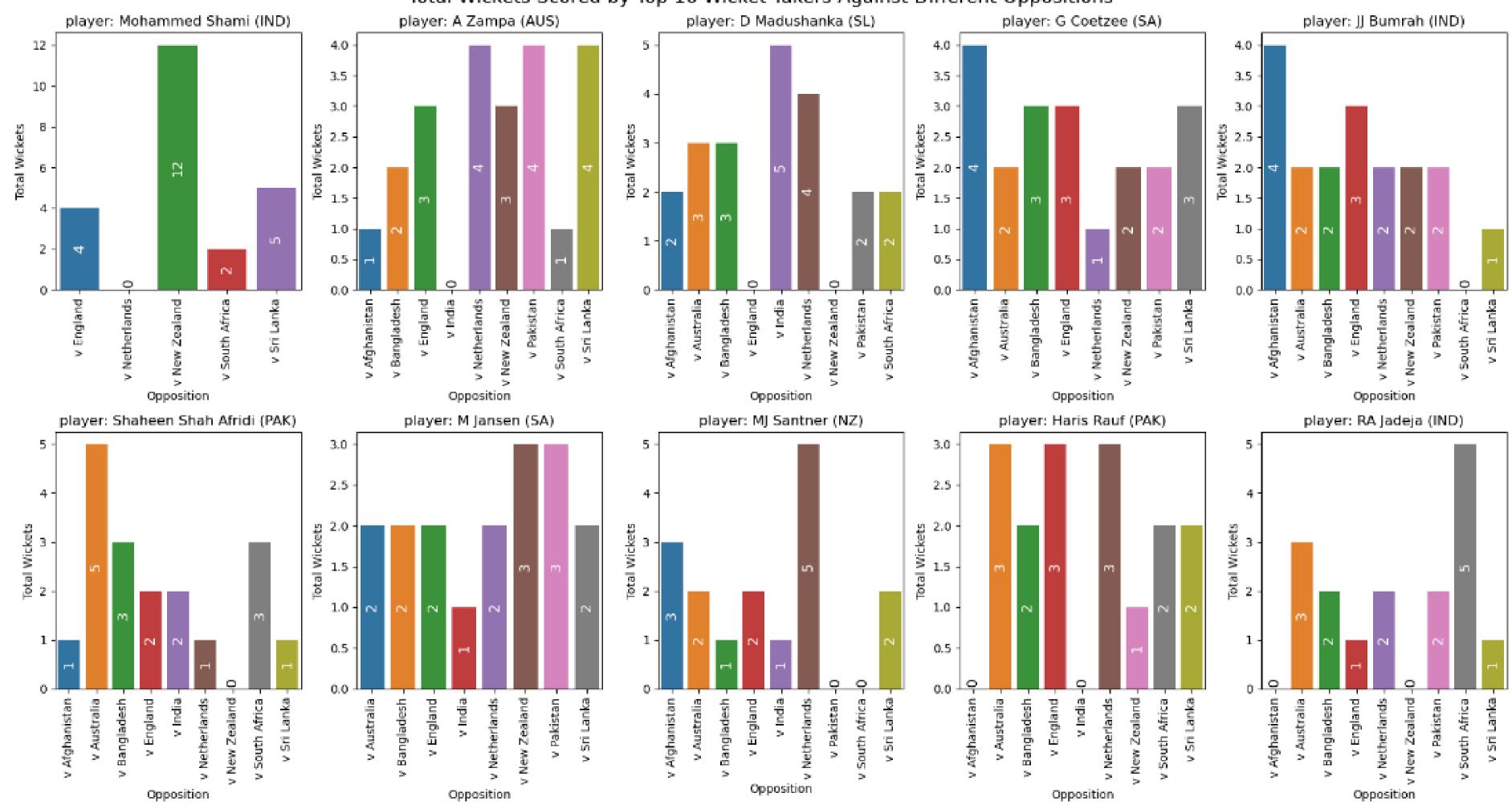


#### Total Wickets Scored by Each Team Against Different Oppositions



Total Runs Scored by Top 10 Run Scorers Against Different Oppositions player: DJ Mitchell (NZ) player: Q de Kock (SA) player: R Ravindra (NZ) player: V Kohli (IND) player: RG Sharma (IND) 175 200 200 250 120 175 150 175 100 200 150 125 150 된 125 Runs Runs Total Runs Runs 125 100 150 lota| Total 100 75 100 75 75 40 50 50 50 50 20 25 91 25 25 43 2 England Bangladesh Sri Lanka v India v India v India v Netherlands v Pakistan South Africa v Sri Lanka Bangladesh New Zealand v Pakistan South Africa Sri Lanka v Afghanistan v Australia v England v Netherlands New Zealand v Australia Bangladesh v England Netherlands v Pakistan v Afghanistan Bangladesh v Netherlands v Pakistan South Africa Sri Lanka v Afghanistan v Australia Bangladesh v England v Netherlands v New Zealand v Pakistan South Africa v Afghanistan Sri Lanka Opposition Opposition Opposition Opposition Opposition player: DA Warner (AUS) player: SS lyer (IND) player: HE van der Dussen (SA) player: MR Marsh (AUS) player: AK Markram (SA) 140 160 120 100 200 120 140 100 120 100 80 150 Total Runs Runs Total Runs Total Runs 100 80 60 Total 80 60 100 60 60 40 40 40 40 50 20 20 20 20 寸 Pakistan Pakistan Pakistan Pakistan Pakistan v India v India v India v India v New Zealand v Sri Lanka v Netherlands Bangladesh v England v New Zealand v Netherlands v New Zealand v England v Afghanistan v Bangladesh v England v New Zealand South Africa Sri Lanka v Afghanistan v Australia Bangladesh v England v Netherlands v New Zealand v South Africa Sri Lanka Afghanistan v Australia Netherlands Sri Lanka v Afghanistan Bangladesh South Africa v Sri Lanka v Afghanistan v Australia Bangladesh v Netherlands Opposition Opposition Opposition Opposition

#### Total Wickets Scored by Top 10 Wicket Takers Against Different Oppositions



# CONCLUSIONS

THIS EXPLORATORY DATA ANALYSIS OF THE WORLD CUP 2023 DATASET WILL OFFER INSIGHTS INTO TEAM AND PLAYER DYNAMICS. PRESENTING FINDINGS CLEARLY, SHOWCASING ANALYTICAL SKILLS AND THE ABILITY TO DRAW MEANINGFUL CONCLUSIONS. THIS PROJECT ENHANCED MY DATA ANALYSIS CAPABILITIES AND DEEPENS UNDERSTANDING OF CRICKET STATISTICS IN A COMPETITIVE SPORTING CONTEXT.



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