

Name: Puneeth Reddy.
Date: 10/10/2024

ODI Cricket Player Performance Analysis

Introduction: This project analyzes key performance metrics of ODI cricket players, focusing on statistics like centuries, batting averages, total runs, half-centuries, and balls faced.

<https://public.tableau.com/app/profile/puneeth.gaddam/viz/puneethfinalproject/Sheet1>

Describe the domain of the data set: The dataset covers One Day International (ODI) cricket statistics. Below is the data set information.

Describe the data file: Player Name: Names of the players.

Matches Played: Total ODI matches played.

Innings: Number of innings batted.

Runs Scored: Total runs scored in ODIs.

Batting Average: Average runs per innings.

Hundreds: Total centuries (100s) scored.

Fifties: Total half-centuries (50s) scored.

Balls Faced: Total balls faced in innings.

Strike Rate: Runs scored per 100 balls faced.



ODI_Stats.csv

Number of rows: 101

Number of columns: 12

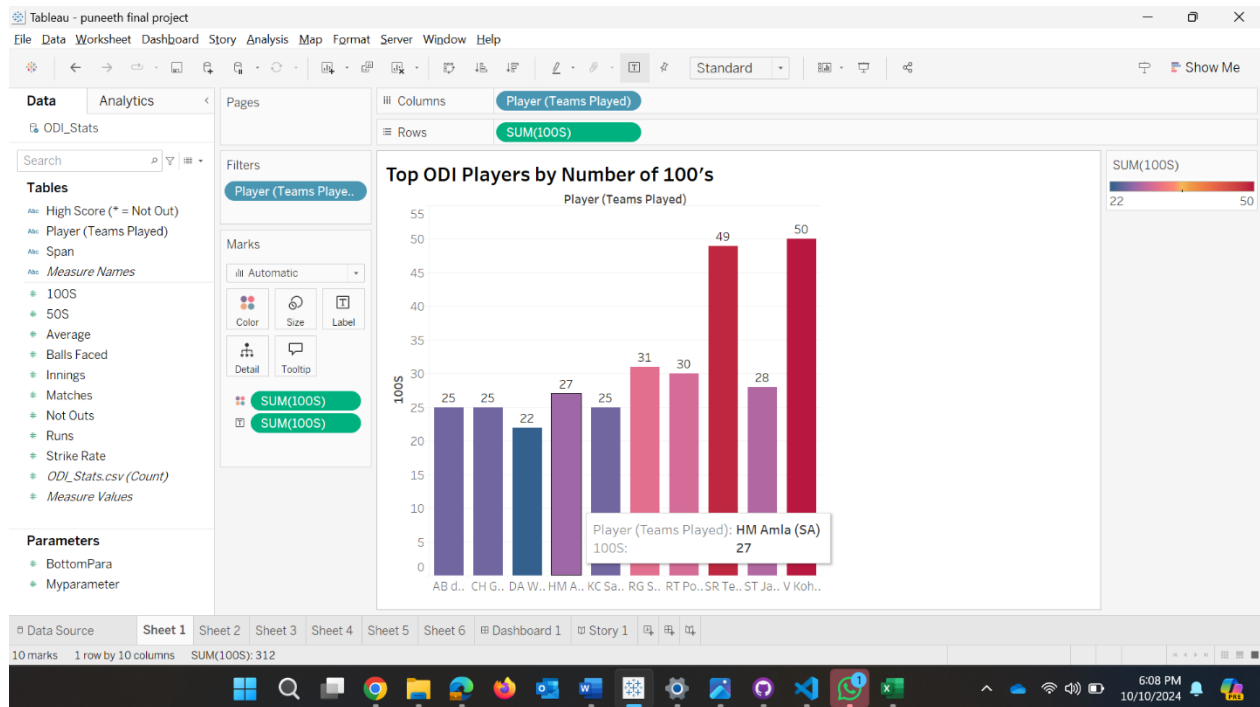
Describe the data source: <https://www.kaggle.com/datasets/akulvaishnavi/cricket-odi-statistics-batting>

Data Cleaning Strategies - what did you do to clean your data? If no cleaning was needed, state this: No, data cleaning is required.

Name: Puneeth Reddy.
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Visualization Tools: I used tableau for my project.

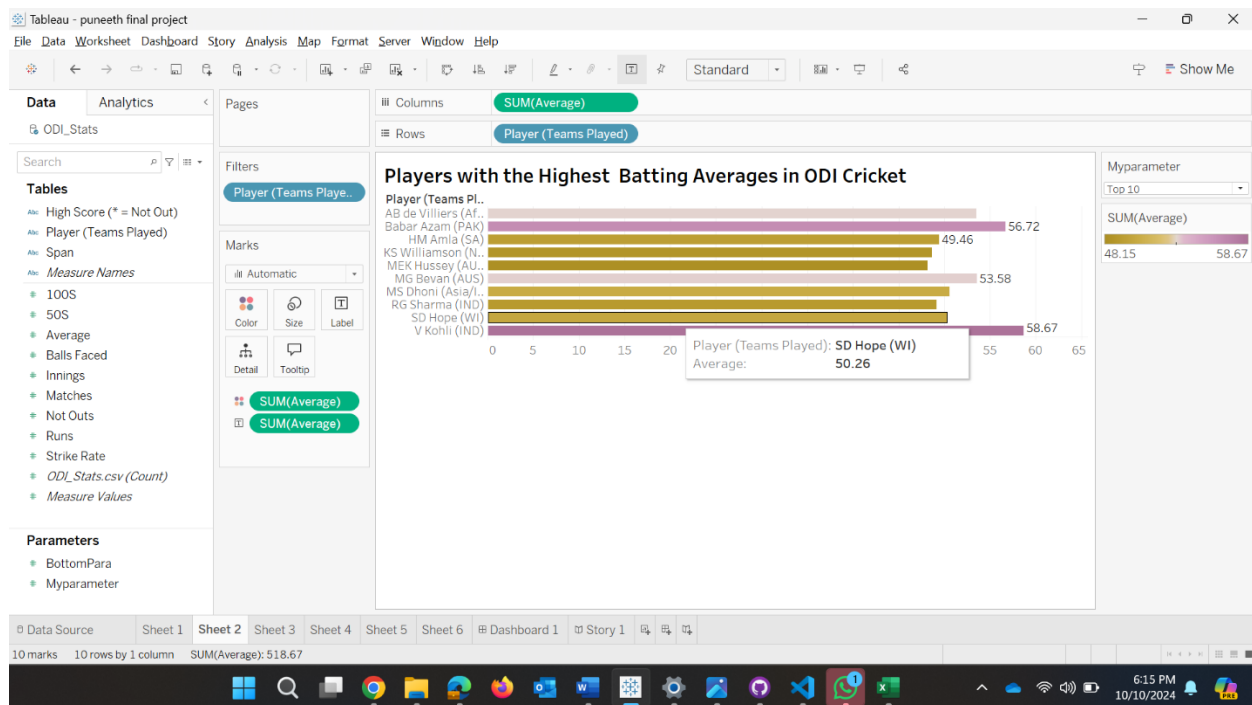
Goal 1 : Who are the top players based on the number of 100s?



Story: The bar chart shows the players who have scored the most centuries (100s) in ODI cricket. Virat Kohli is at the top with 50 centuries, which highlights his incredible skill and consistency throughout his career. Sachin follows closely behind with 49 centuries, showing that he is a top performer. David Warner is lower on this list, with 22 centuries, indicating he has room to improve in reaching this milestone.

Goal 2 : Which players have the highest career batting average in ODI cricket?

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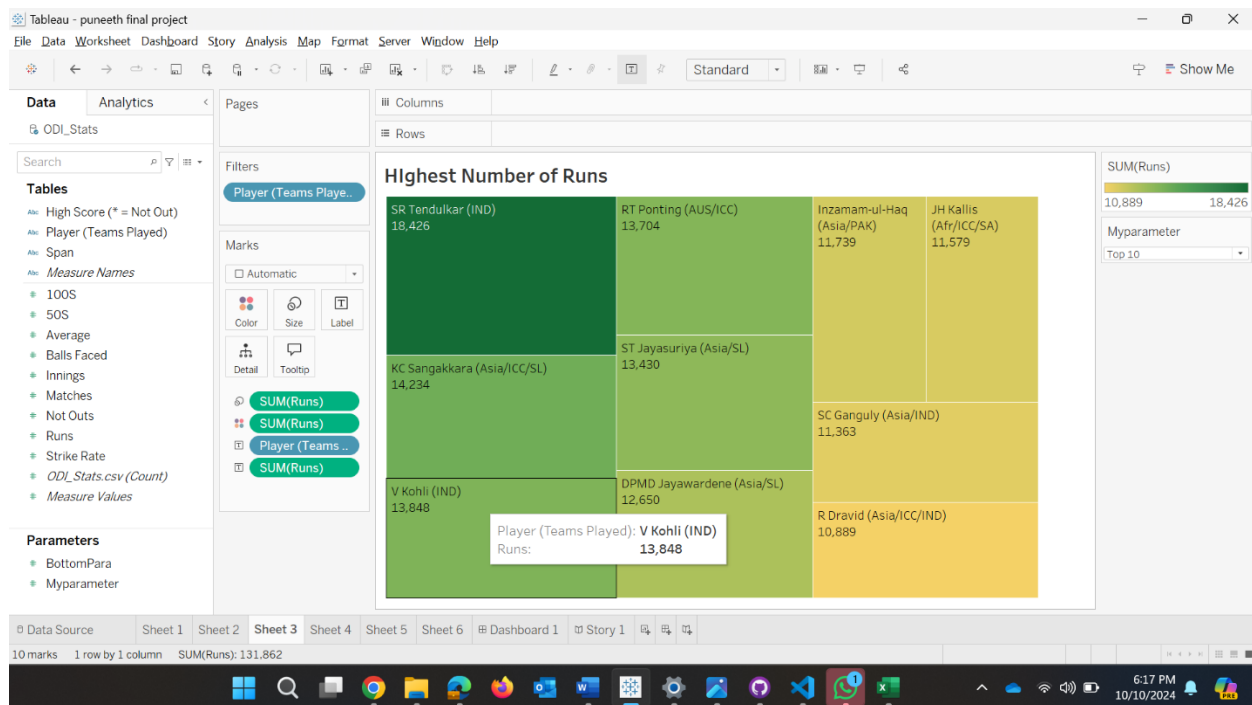


Story :

In the horizontal bar graph, we can see which players have the highest batting averages in ODI cricket. Virat Kohli leads the group with an impressive average of 58.67, which reflects his reliability as a batsman over many matches. Michael Hussey has the lowest average among these players at 48.19, which is still quite good, but shows that he wasn't as consistent compared to the top players.

Goal 3 : Who scored the most runs in ODI cricket history?

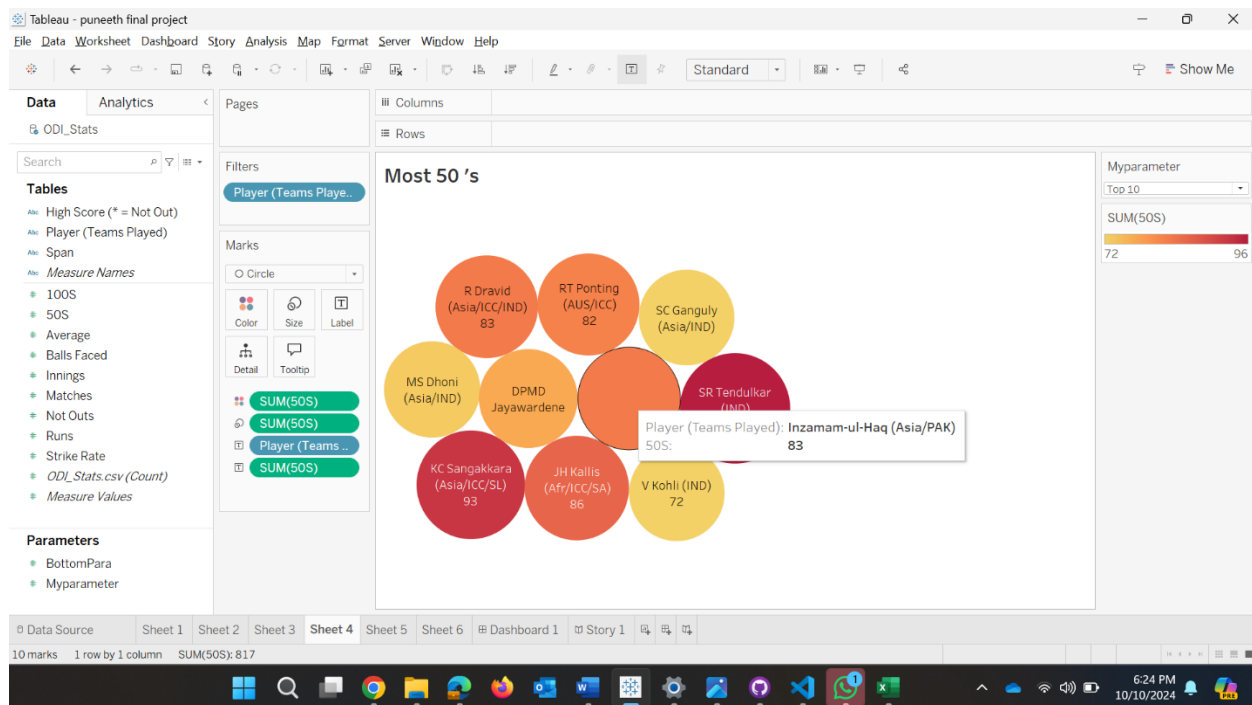
Name: Puneeth Reddy.
Date: 10/10/2024



Story : The tree chart below shows the players who have scored the most runs in ODI cricket history. Sachin Tendulkar is at the top with an impressive total of 18,426 runs, which makes him one of the best batsmen in this format. Next is Kumar Sangakkara, who scored 14,234 runs, Followed by Virat kholi showing Theirs skill and ability to play well over many years. Rahul Dravid is also among these players, with a total of 12,763 runs. While this is still a great achievement, it shows he didn't quite reach the same level as Tendulkar and Sangakkara. This chart highlights the amazing records these players have and their important roles in ODI cricket.

Goal 4: Who scored the most 50s in ODI cricket?

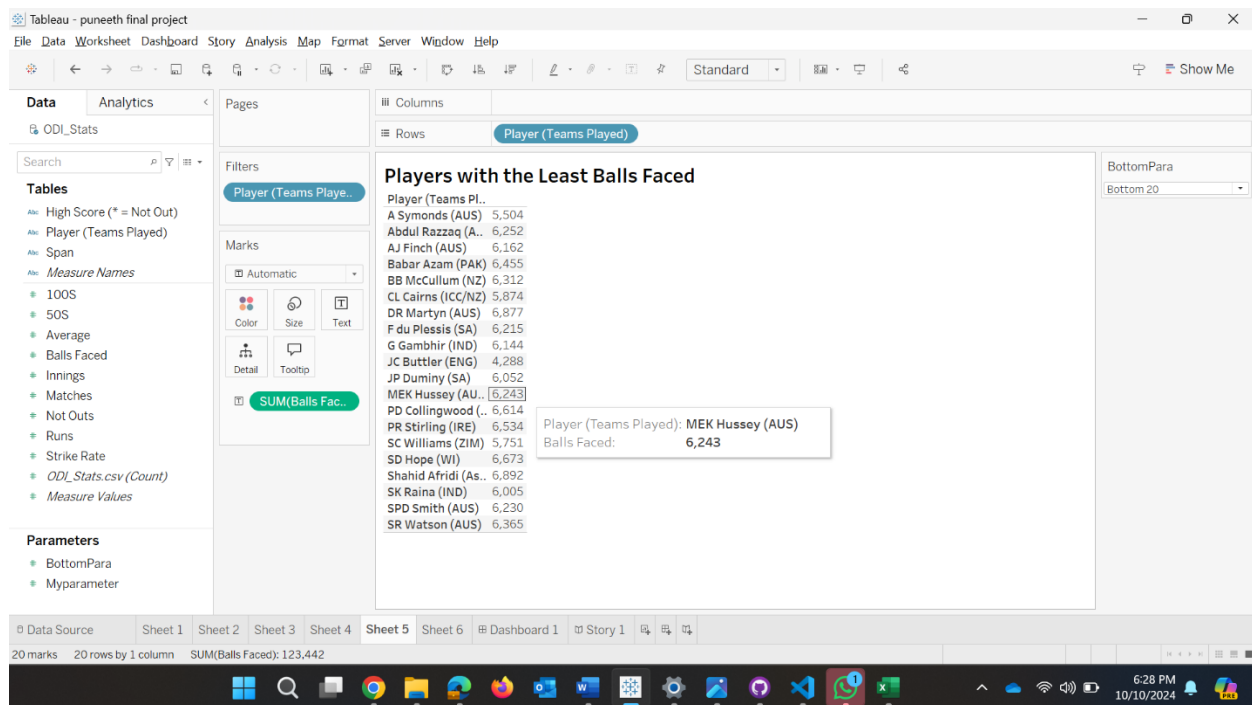
Name: Puneeth Reddy.
Date: 10/10/2024



Story : The bubble chart below displays the players who have scored the most fifties (50s) in ODI cricket. Sachin Tendulkar leads the list with an impressive total of 96 fifties, highlighting his consistency and ability to score runs across many matches. Following him is Virat Kohli, who has 72 fifties, showcasing his talent and scoring ability in the format. Other players appear in the chart as well, but their numbers are lower compared to Tendulkar and Kohli. This chart emphasizes the significant contributions these players have made to ODI cricket, particularly in building strong innings and setting up their teams for success.

Goal 5 : Who faced the least number of balls in ODI cricket?

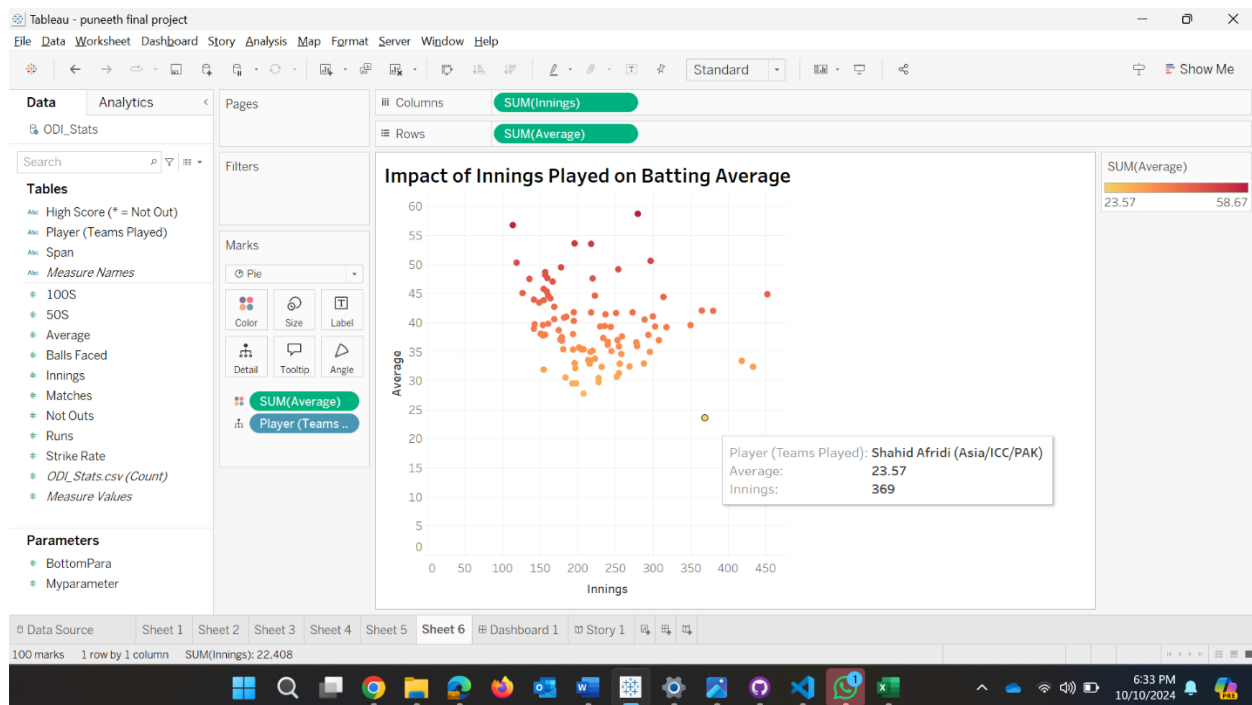
Name: Puneeth Reddy.
Date: 10/10/2024



Story : The table below shows the players who faced the least number of balls in their ODI careers. Josh Butler stands out with least number of balls in this carrier with just 4,288 followed by sc willims and carims. Shahid Afridi faced 6,882 balls, which is significantly higher but still showcases his aggressive style of play.

Goal 6 : How does the number of innings impact a player's batting average?

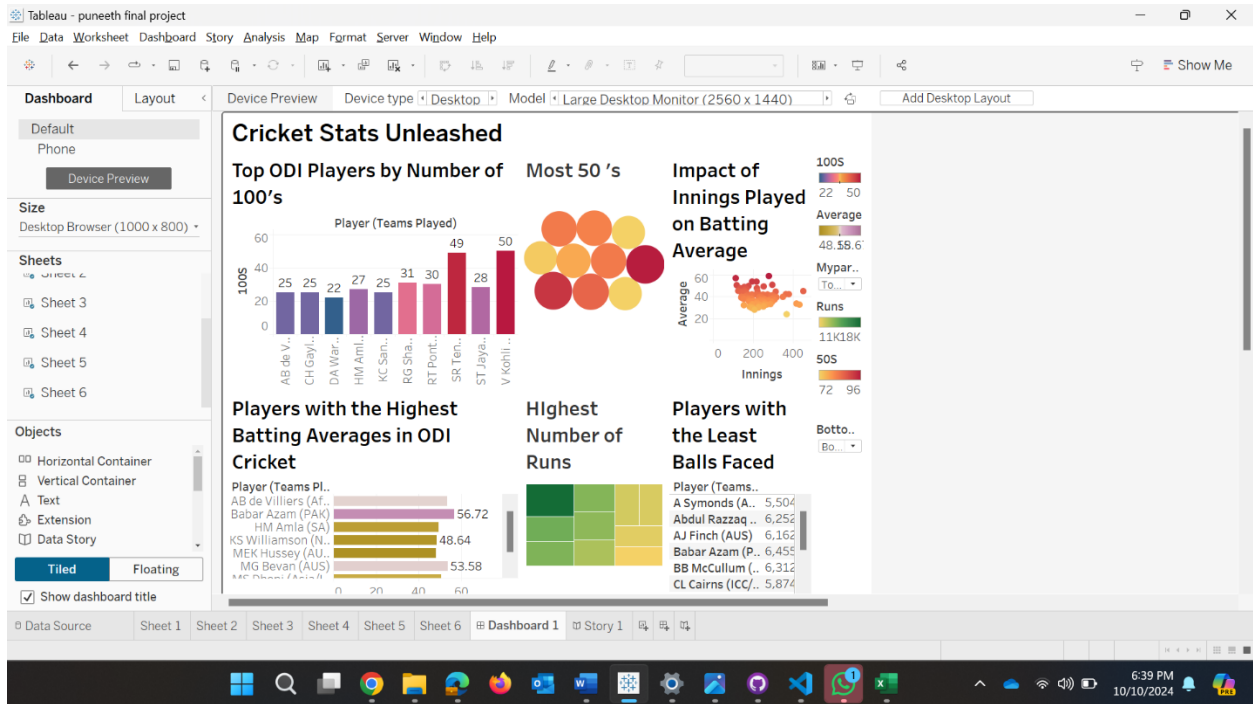
Name: Puneeth Reddy.
Date: 10/10/2024



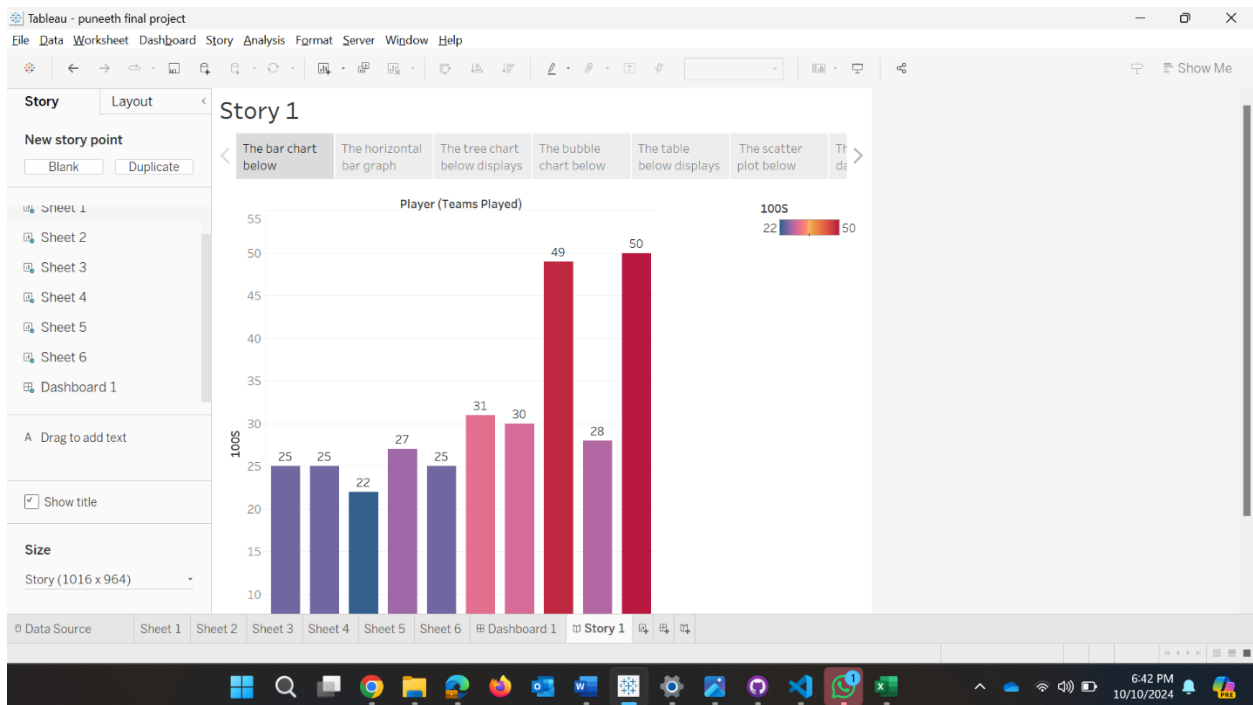
Story : The scatter plot shows the relationship between the number of innings played and a player's batting average. Virat Kohli has the highest average at 58.6, proving his ability to score runs consistently against different teams. On the other hand, Shahid Afridi has the lowest average at 23.37, indicating that while he played many innings, he struggled to maintain a good scoring rate. This plot shows that simply playing more innings doesn't always lead to a higher average; being consistent in scoring is crucial.

Name: Puneeth Reddy.
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Dashboard:



Story Board :



Name: Puneeth Reddy.
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Conclusion: In conclusion, this project showcases the remarkable achievements of top players in ODI cricket. Sachin Tendulkar holds records for the most runs and fifties, while Virat Kohli maintains a high batting average, demonstrating consistency in his performance. Additionally, Josh Buttler's ability to score efficiently with the least number of balls faced highlights the importance of aggressive batting. The charts illustrate trends in scoring, emphasizing how these skills are essential for success in ODI cricket. Overall, the analysis provides valuable insights into the contributions of these players and the evolving strategies within the game.