



# OLYMPICS DATASET ANALYSIS

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# ABOUT THE DATASET

- **Time Period:** Covers Olympic events from **1896 to 2016** for both **Summer and Winter Games**.
- **Scope:** Contains medal records for **athletes, sports, years, and countries**.  
It allows for a deep analysis of performance by countries, sports, and gender.
- **Data Size:** The dataset contains **thousands of records** on medal winners from 1896 to 2016, making it a comprehensive source for analysis.

# PROBLEM STATEMENT

Analyse the dataset and review the following problem statements.

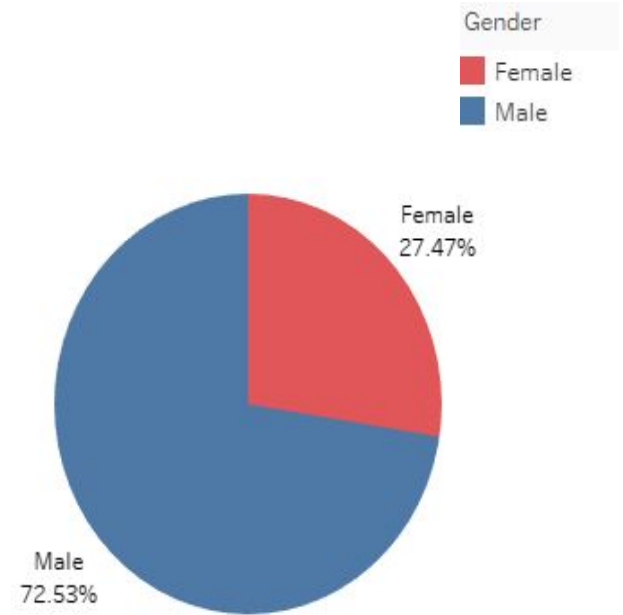
- Medals won by gender(%).
- Male and Female ratios by year.
- Top 10 countries by medal.
- Top olympic medallists by total medal.
- Top 10 sports by gender.
- Summer vs Winter olympics comparison by medal count.
- Total number of Sports.
- Total number of Events.
- Total number of Medal-Winning Countries.
- Total number of Participating countries.

# TOOLS USED FOR ANALYSIS

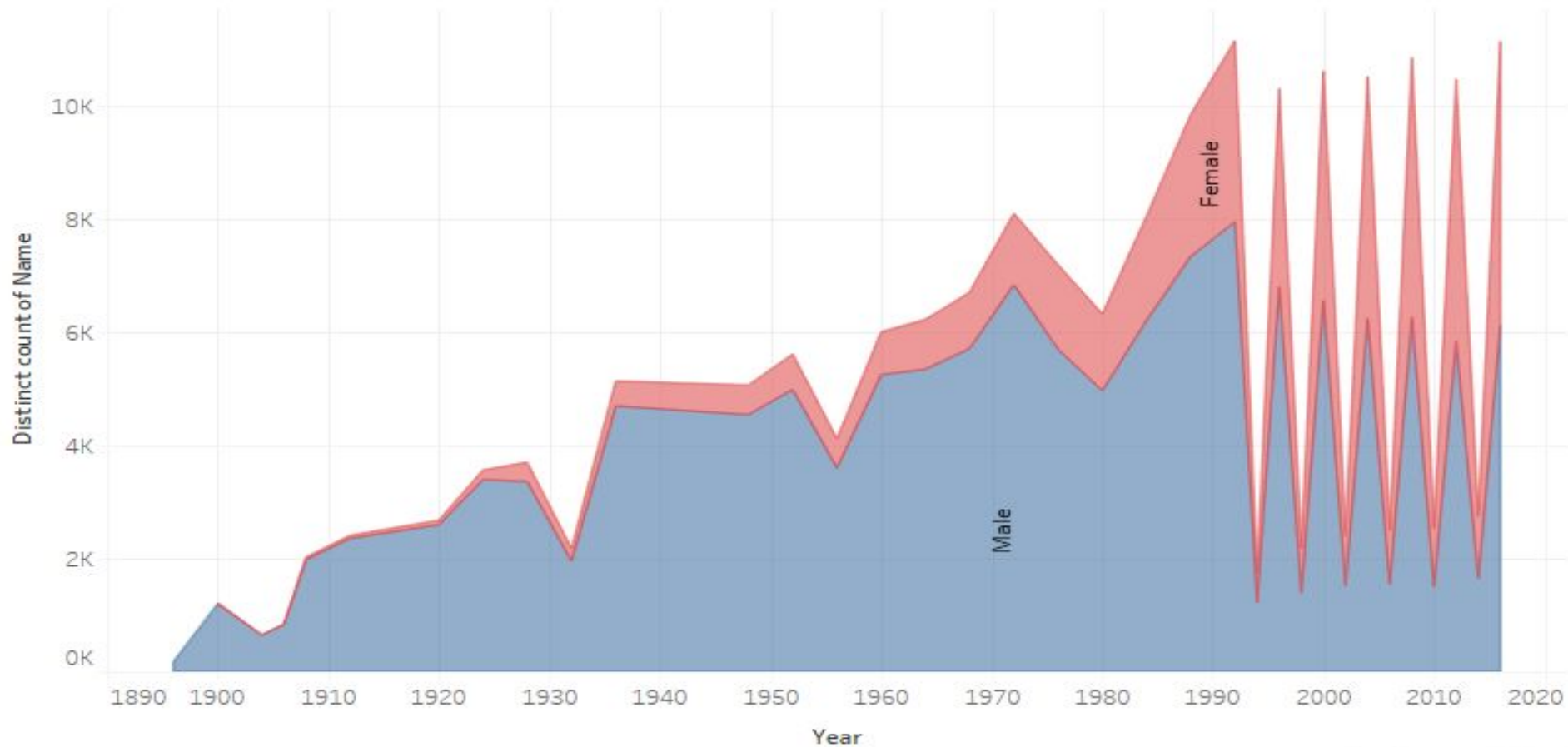
- **EXCEL:** Used for data cleaning, removal of null values, and initial exploration.
- **TABLEAU:** Used to create dynamic, interactive charts for country performance, gender comparison, and medal analysis.

# Medals won by gender(%)

- This pie chart illustrates the gender distribution of our dataset.
- The chart reveals a significant gender imbalance, with males representing 72.53% and females comprising 27.47%.
- We need to consider strategies to attract and engage more female participants.



# Male and Female ratios by year.

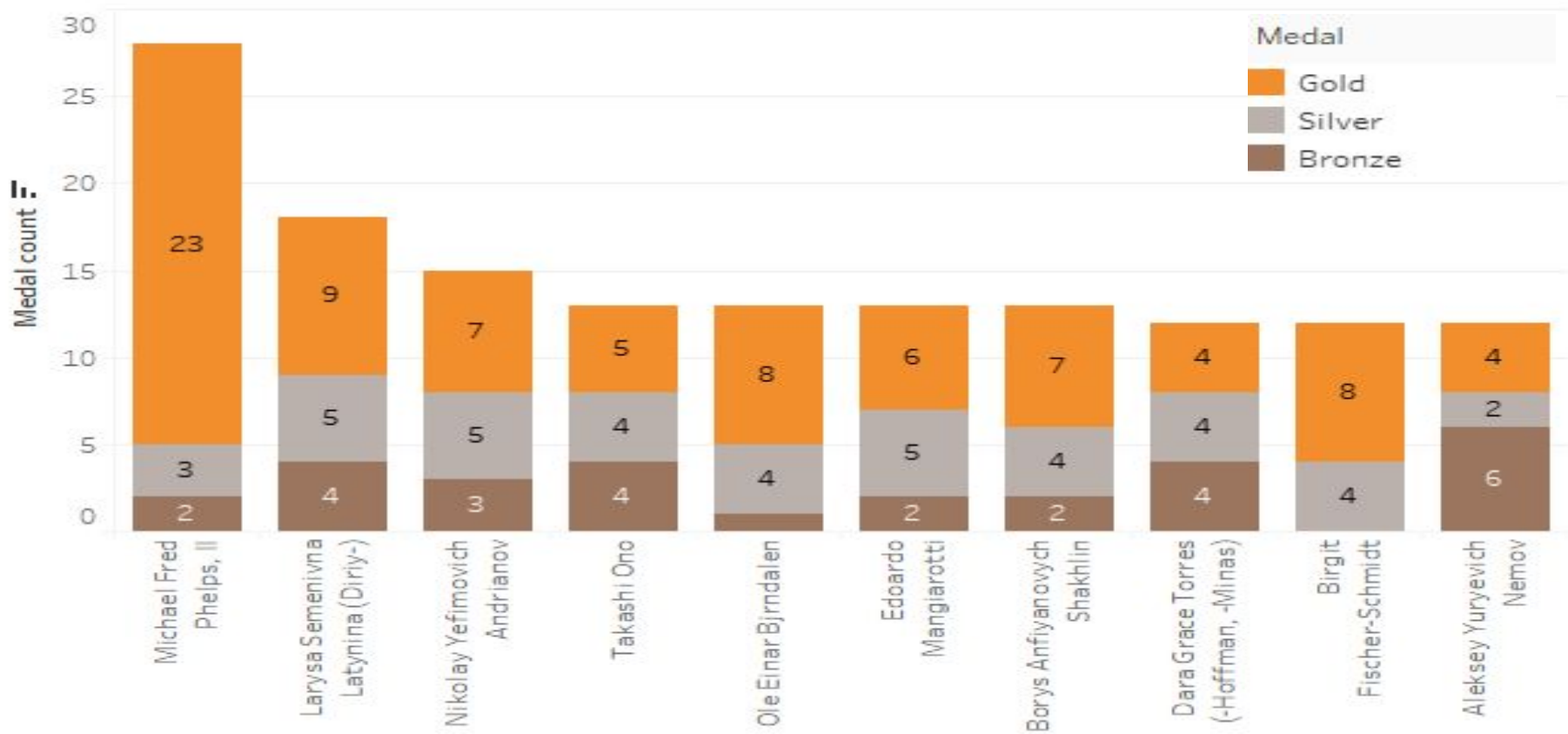


# Top 10 countries by medal.

- The USA dominates the Olympic medal count, followed by Russia and Germany.
- These countries have strong sports development programs and a legacy of participation.
- Smaller countries like Sweden, Canada, and Australia have achieved remarkable success relative to their population size.

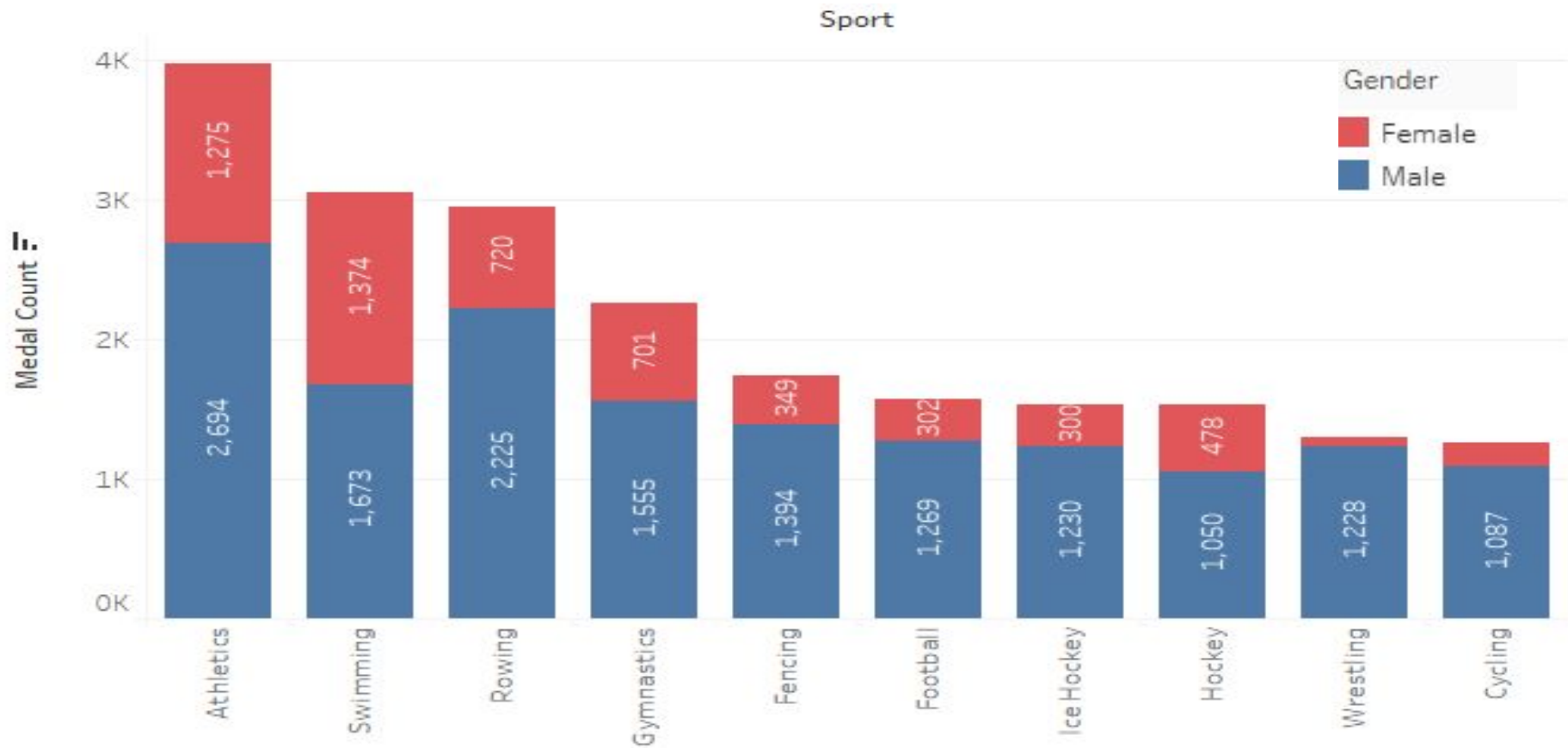
Region	🏆	Medal			Grand .. 🏆
		Gold	Silver	Bronze	
USA		2,638	1,641	1,358	5,637
Russia		1,599	1,170	1,178	3,947
Germany		1,301	1,195	1,260	3,756
UK		678	739	651	2,068
France		501	610	666	1,777
Italy		575	531	531	1,637
Sweden		479	522	535	1,536
Canada		463	438	451	1,352
Australia		368	459	522	1,349
Japan		247	309	357	913
Grand Total		8,849	7,614	7,509	23,972

# Top olympic medallists by total medal.



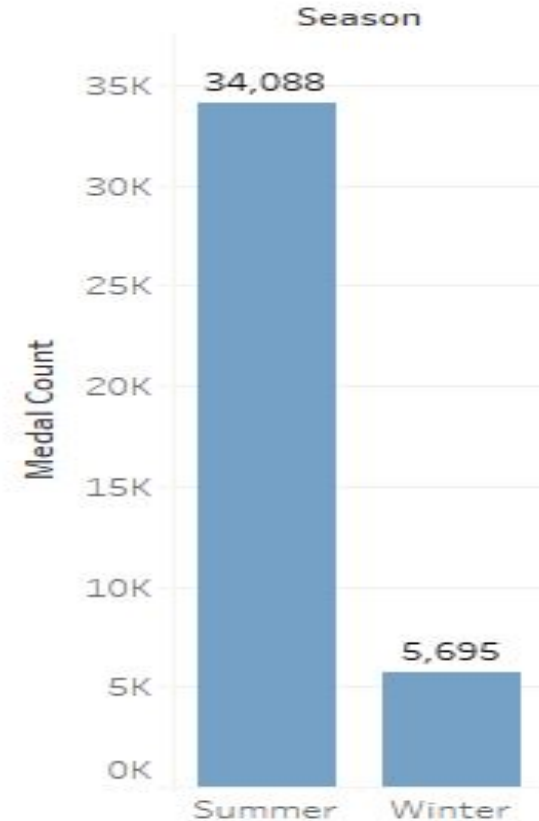


# Top 10 sports by gender.



# Summer vs Winter olympics comparison by medal

- The popularity and scale of Summer Olympic sports contribute to the higher number of medals.
- The nature of Winter sports, with fewer participants and events, results in fewer medals awarded.
- This disparity highlights the difference in resources and attention given to Summer and Winter sports.








# Other statistics

Statistic	Number
Total Number of Sports	66
Total Number of Events	765
Total Number of Medal-Winning Countries	136
Total Number of Participating Countries	206

- The Olympic Games featured a total of 66 sports and 765 events.
- A remarkable 136 countries claimed medals in these games.
- The total number of participating countries reached 206, showcasing global unity and athleticism.

# GENERAL CONCLUSIONS

-  **Global Participation:** 206 countries participate, promoting global unity.
-  **Diverse Sports Program:** More sports are added to attract diverse participants.
-  **Dominant Countries:** The USA, Russia, and Germany are dominant medal-winners.
-  **Gender Disparity:** Women win 27% of medals but participation is growing.
-  **Summer vs Winter:** Summer Olympics award significantly more medals than Winter.

# Potential Areas for Further Analysis

- **Impact of Hosting the Olympics:** Analyze the impact of hosting the Olympics on a country's medal count and overall economic and social development.
- **Factors Contributing to Success:** Investigate the factors that contribute to the success of top-performing countries and athletes, such as training methods, infrastructure, and government support.
- **Emerging Trends:** Identify emerging trends in the Olympic movement, such as the increasing participation of women and the rise of new sports.
- **Social and Cultural Impact:** Explore the social and cultural impact of the Olympics, including its role in promoting international understanding and peace.

# REFERENCE

Dataset : <https://github.com/TheiScale>



THANK YOU