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# Summer Olympics -EDA



This EDA represents the Data analysis for Summer Olympics history back from 1896 till 2012.



Olympics Hosting

Countries Participation over the Olympics History.

Olympics hosted Cities



Medals

Top 5 Countries in Olympics History

Trend in medal won count over the years.

Top 3 Countries over the history



Sports and Discipline added over the Years.



Men and Women Performance over the years



India Performance in Olympics History



Top 10 - Men and Women Athlete

## Data Pre-processing

## Overview

#### Dataset info

 Number of variables
 9

 Number of observations
 31165

 Total Missing (%)
 0.0%

 Total size in memory
 2.1 MiB

 Average record size in memory
 72.0 B

#### Warnings

Athlete has a high cardinality: 22762 distinct values Warning
Country has a high cardinality: 148 distinct values Warning
Discipline has a high cardinality: 67 distinct values Warning
Event has a high cardinality: 666 distinct values Warning
Dataset has 2 duplicate rows Warning

#### Variables types

Numeric1Categorical8Boolean0Date0Text (Unique)0Rejected0Unsupported0

## Overview

#### Dataset info

 Number of variables
 10

 Number of observations
 31163

 Total Missing (%)
 0.0%

 Total size in memory
 2.4 MiB

 Average record size in memory
 80.0 B

#### Warnings

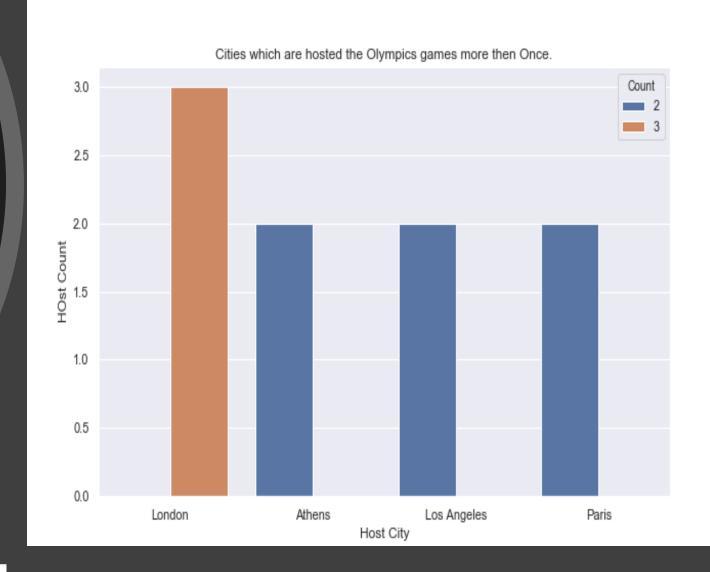
Athlete has a high cardinality: 22762 distinct values Warning Country has a high cardinality: 148 distinct values Warning Discipline has a high cardinality: 67 distinct values Warning Event has a high cardinality: 666 distinct values Warning Year is highly correlated with index ( $\rho$  = 0.97064) Rejected

### Variables types

Numeric
Categorical
Boolean
Date
Text (Unique)
Rejected
Unsupported

# Olympics HostingCity

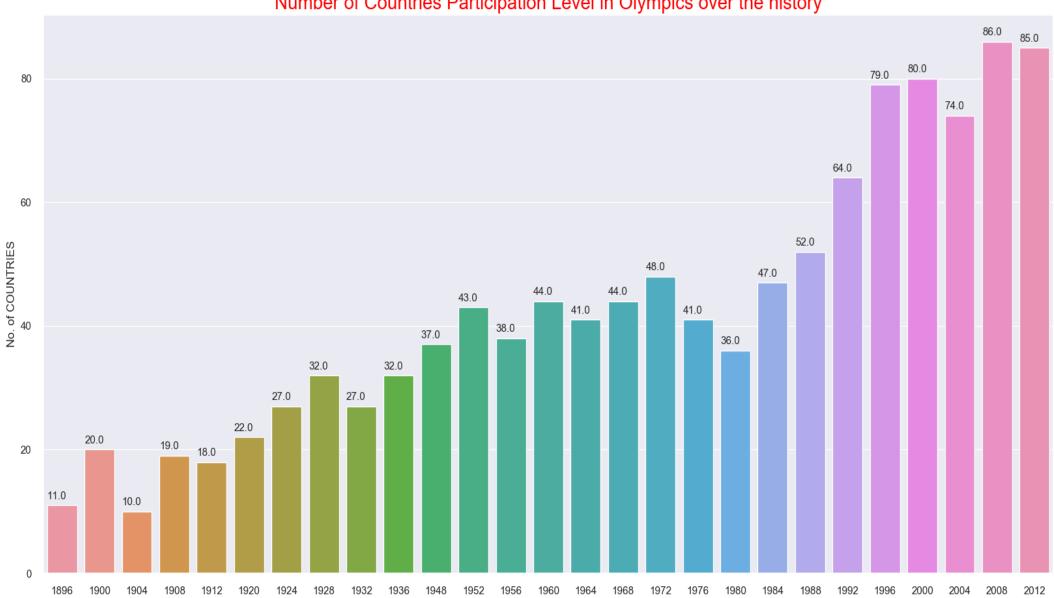
 Four cities had hosted the Olympics games more than ONCE, but London has hosted the Olympics games 3 times.



## Countries Participation Level in Olympics History

Maximum number of Countries participated in Olympics Country Minimum number of Countries participated in Olympics Country 10

## Number of Countries Participation Level in Olympics over the history

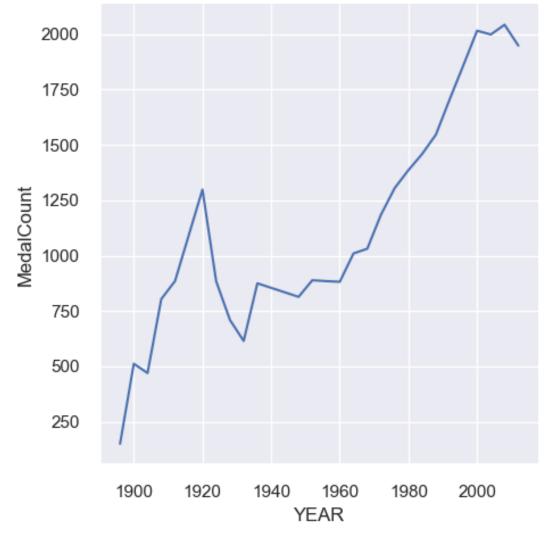




# Total Medal Won Count in Olympic History

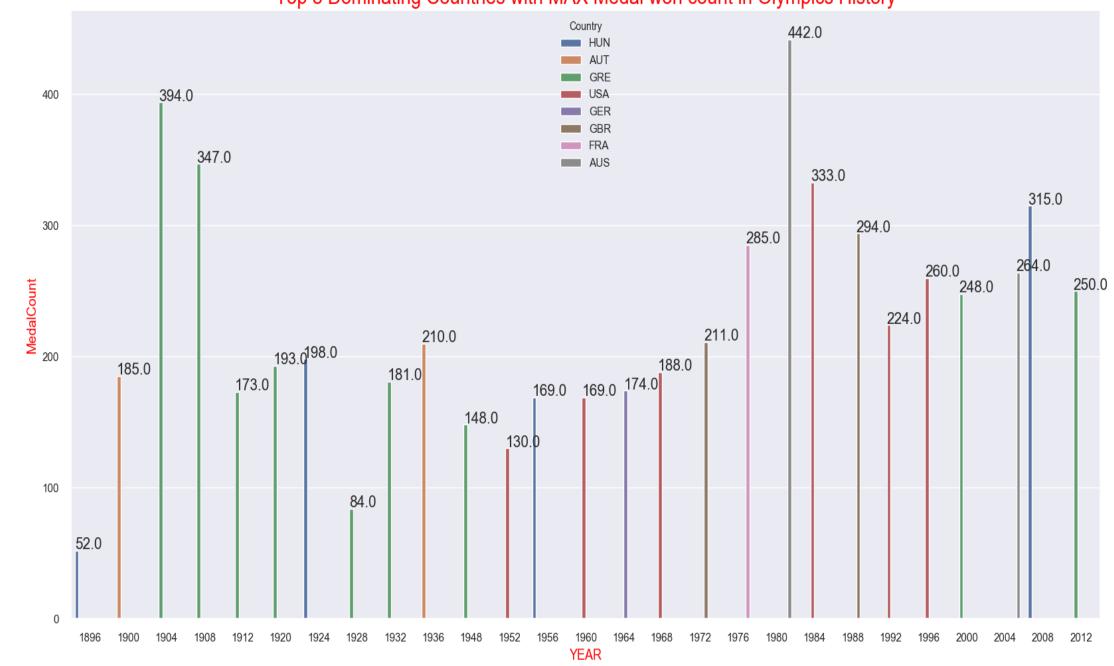
- Overall Positive trend in number of medal won count in each Olympics over the history.
- There is steep rise in Medal won in 1920 as 1250 medals and few dips in next 20 years but picking up upward pace from 1960 Olympics onwards.

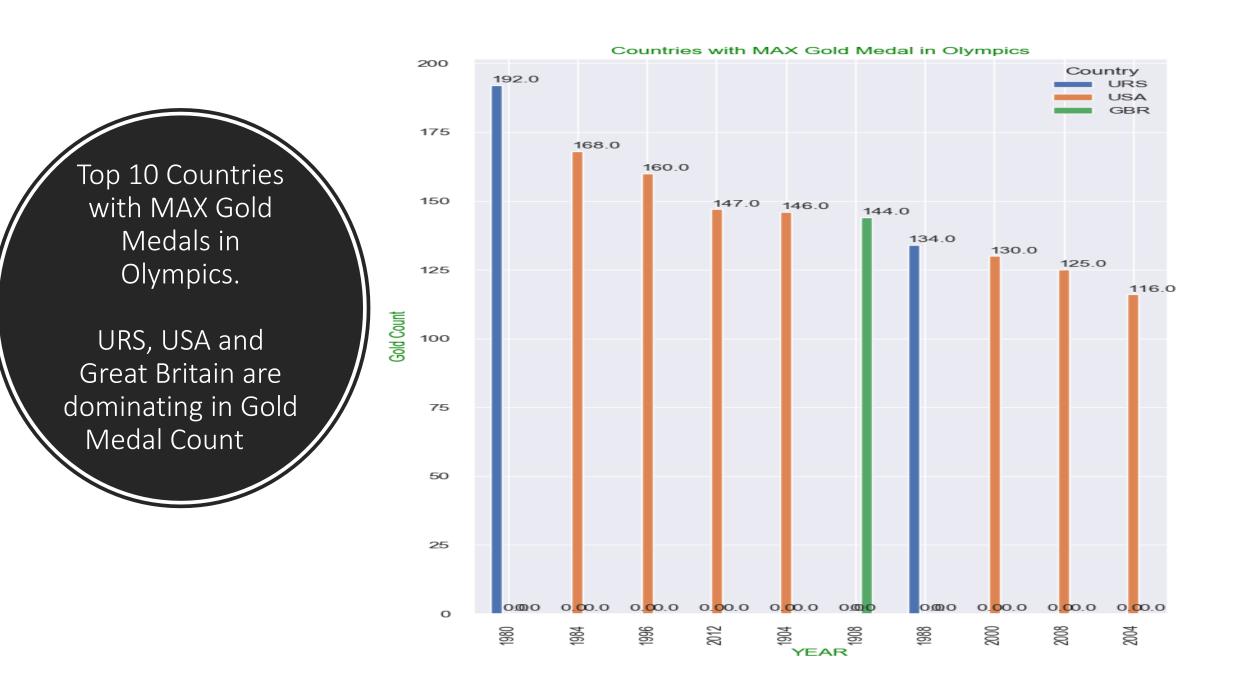


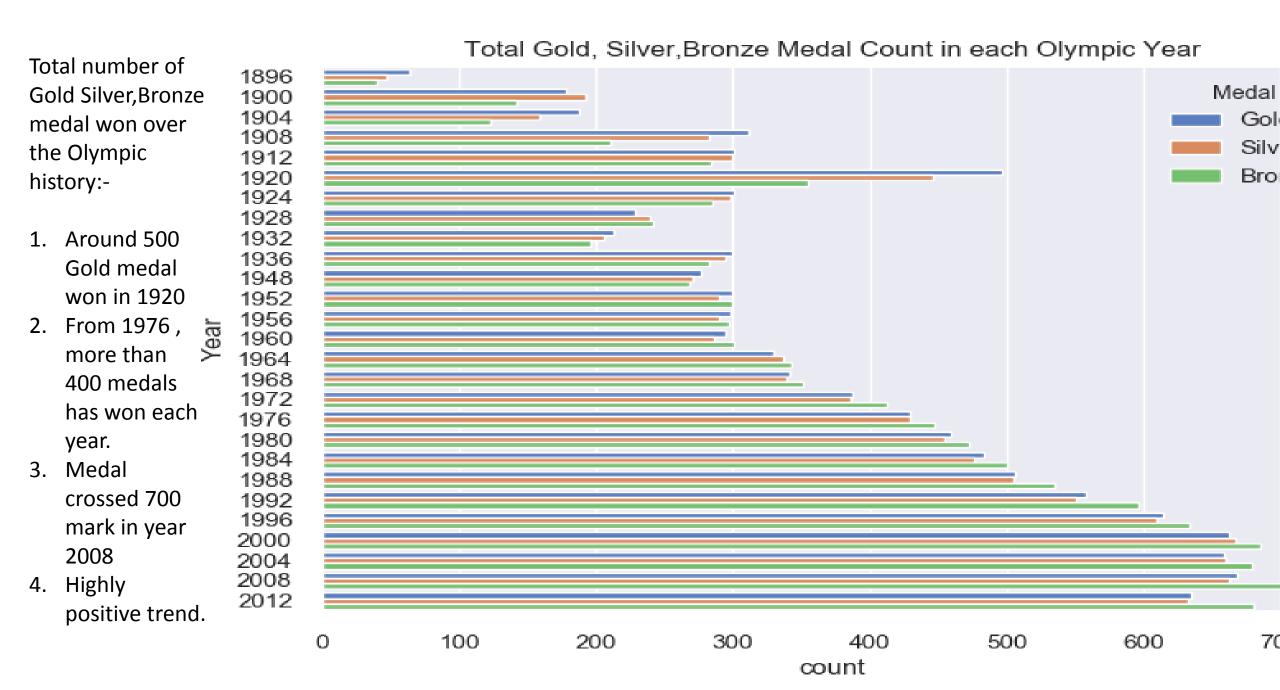


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Top 8 Dominating Countries with MAX Medal won count in Olympics History

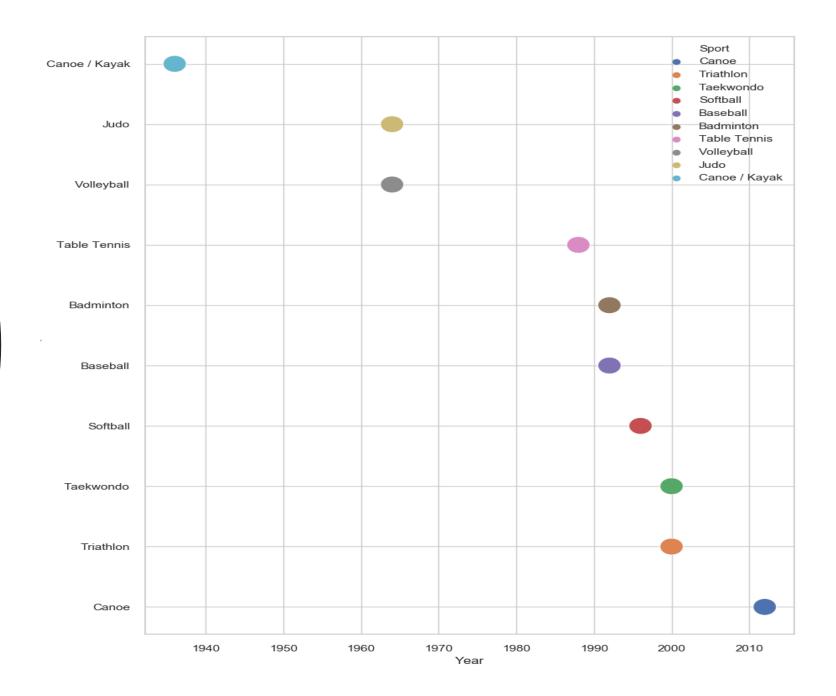






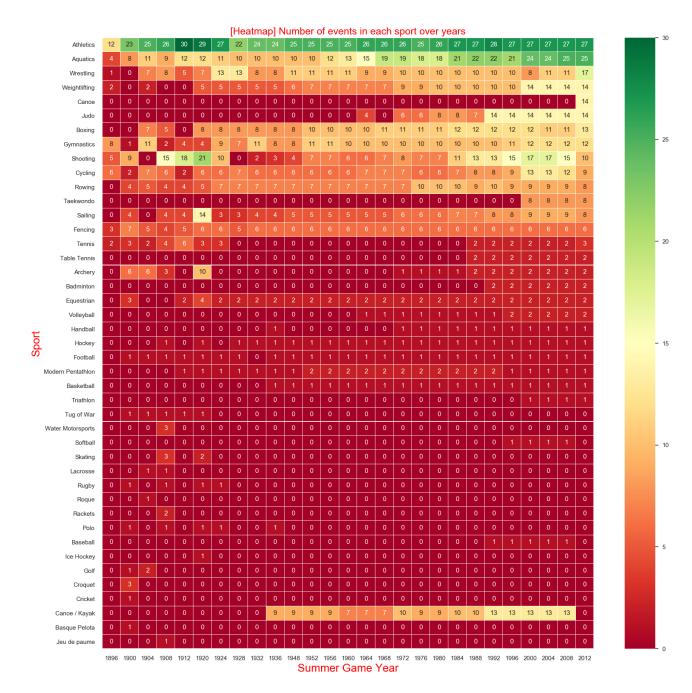
Sports AND
Discipline added
over the years

Canoe and
Triathlon has
recently added in
Olympics



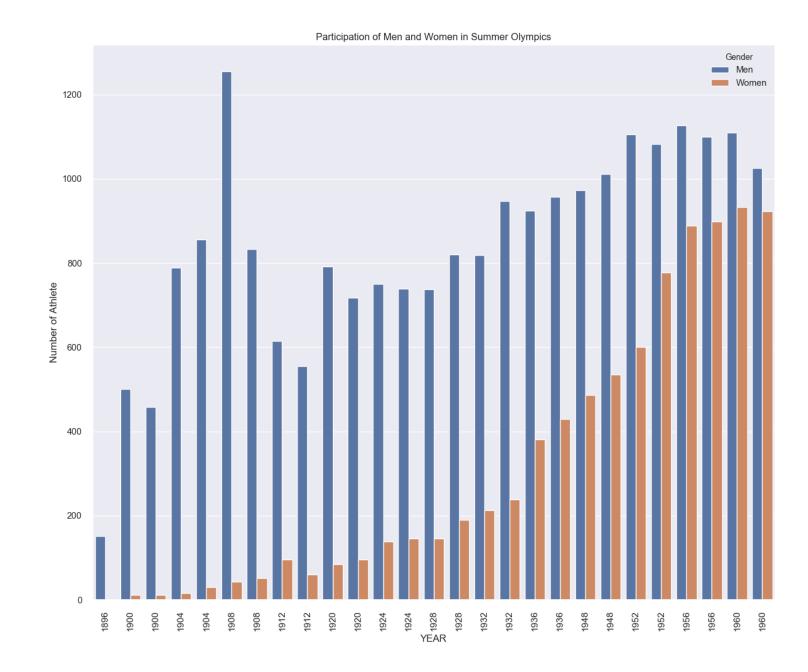
## Number of Events per Sport in each Year

 Athletics and Aquatic host maximum number of events.



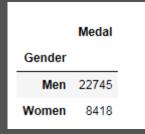
1.Men Athlete are dominating in participation.

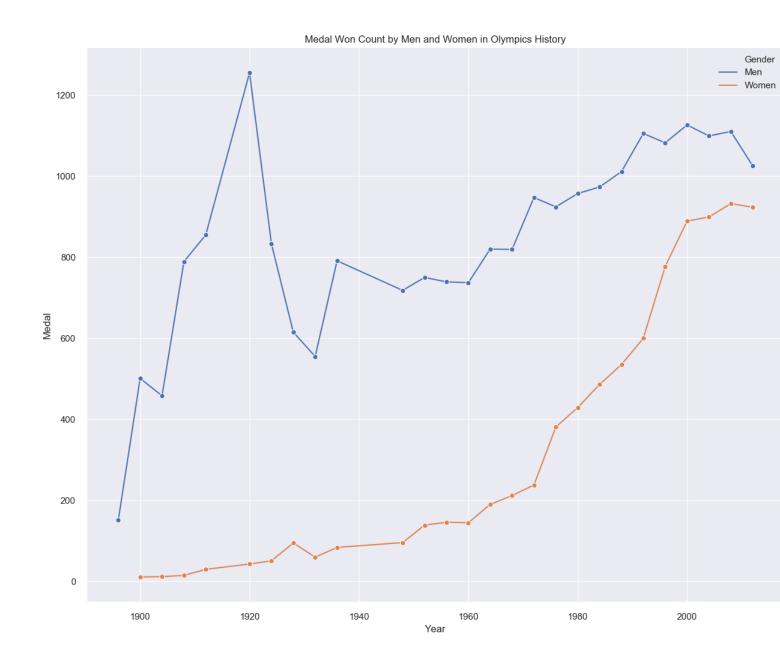
2. Women participation increasing over time and may surpass the men in near future.



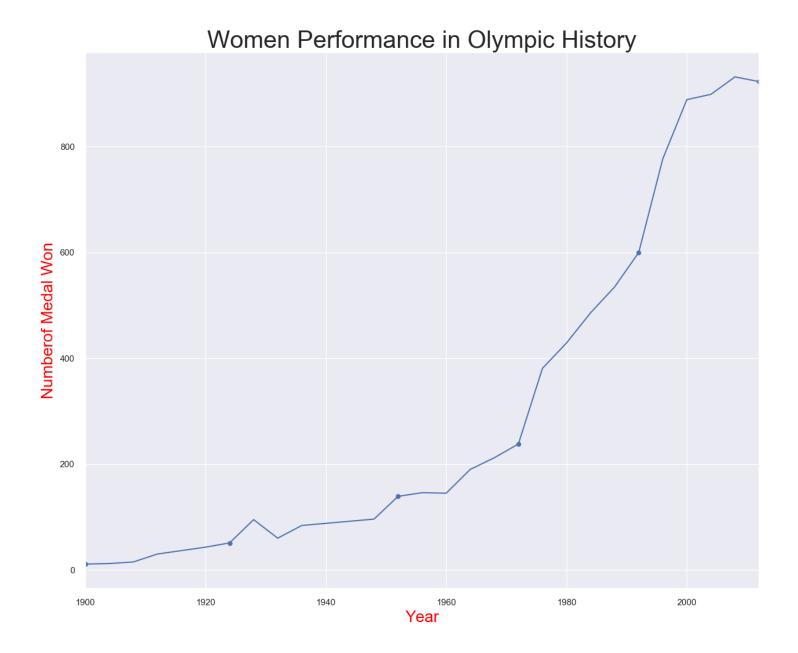
## Performance of Men and Women Athlete in Olympics History

- 1. Women Athlete Started performing from the year 1900 onwards.
- 2. There are highly uprising trend in their performance over the years.
- 3. Men Athlete are dominating in bagging the Olympics Medals, but Women Athlete performance almost converges to men towards year 2000.





Women
Performance in
Olympics
significantly
increase in the
history. There were
highly positive
trend. Women
performance
increase 800%.

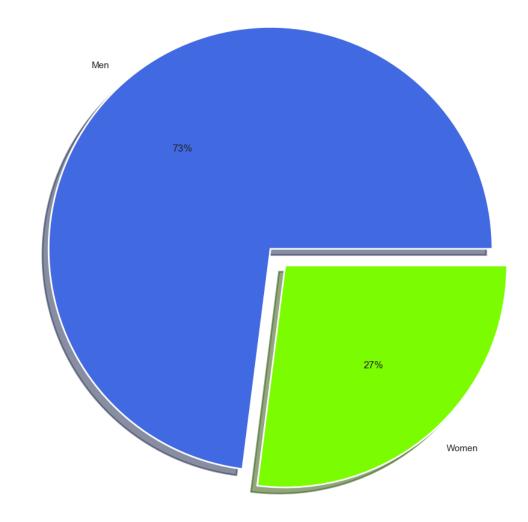


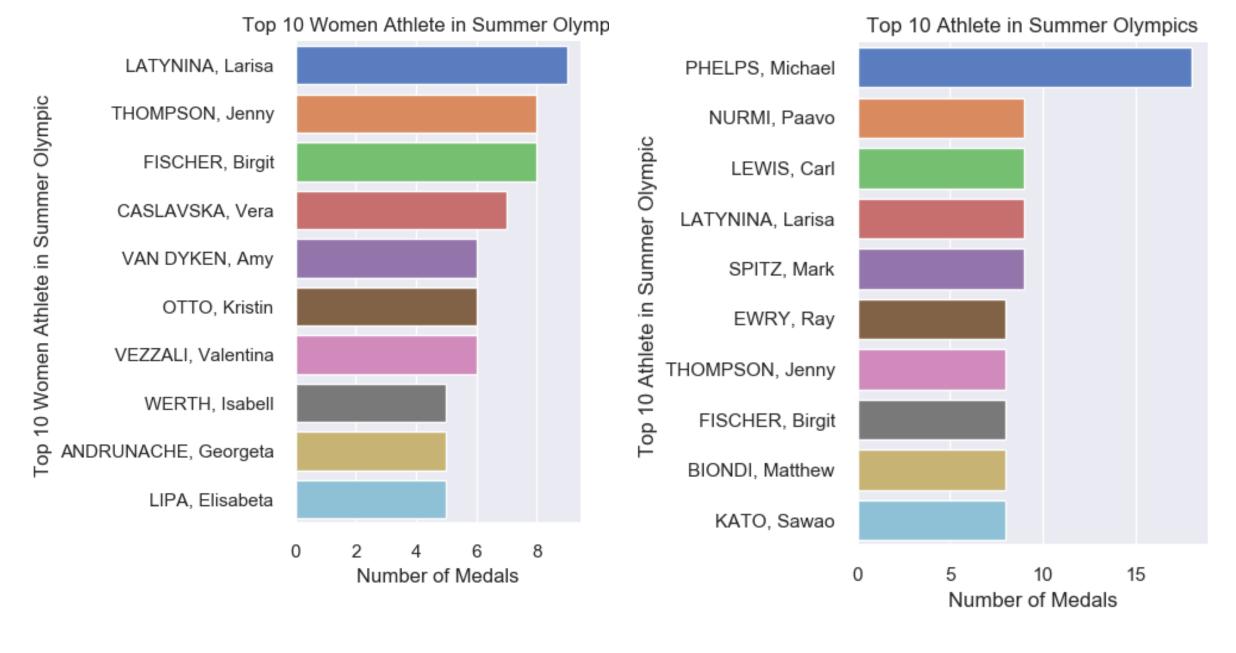
# Medal Won by Men and Women in Olympics in Percentage

73% of the total medal won count in Olympics were Men and women contributed to 27%.

Men were dominating in medal count, but women also started contributed close to  $1/3^{rd}$  of total medal won count after year 1900.

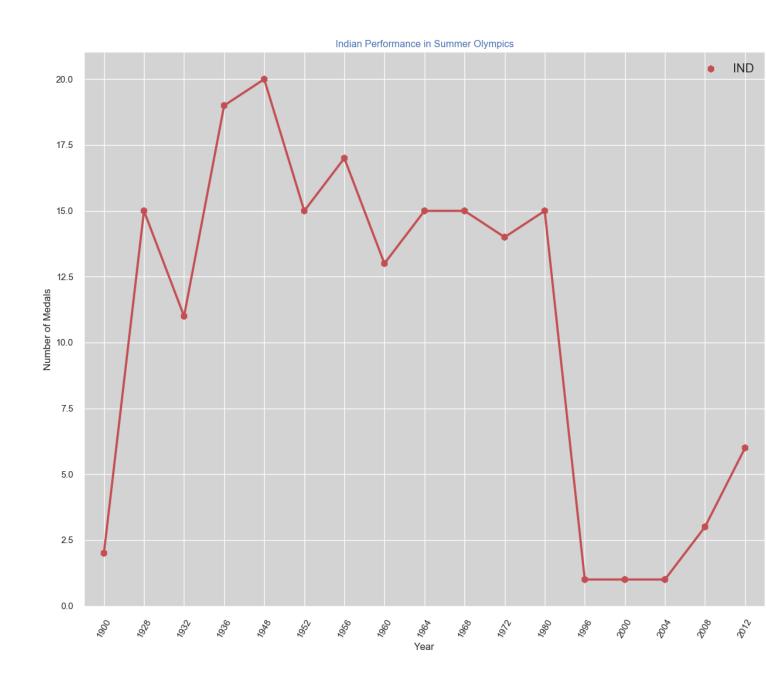
### SUMMER OLYMPICS - Medal Won (Gender wise)



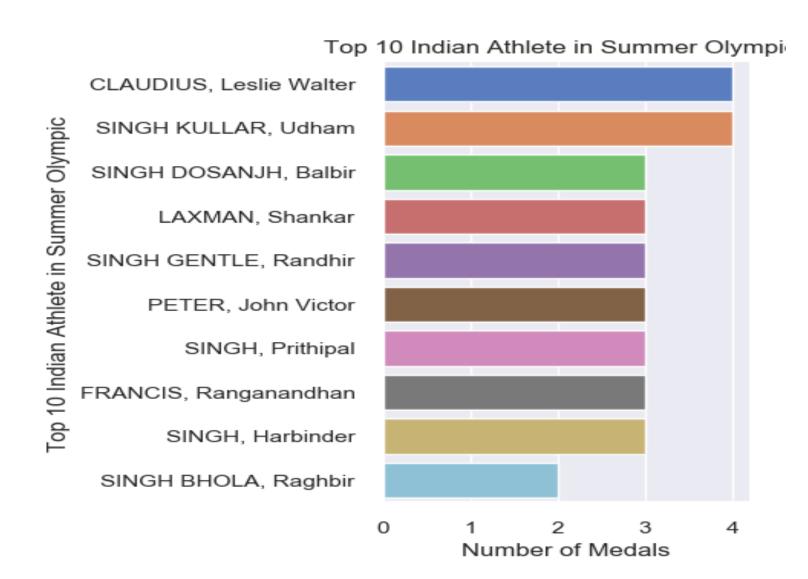


Top 10 Athlete in Olympics history

- Indian Performance in Summer Olympics
- India has performed quite well in early Olympics.
- India bagged maximum 20
   Olympics medal in the year
   1948 which is the year when
   India got Independence.
  - This shows that the sentiments and victory plays important role in Athlete moral level.
- After 1948, India's performance decreased over time.
- India has not won any Medal between 1980 to 1996 in FOUR Olympics games.
- There is again positive trend shown after 1996.



## Top Ten Indian Athlete in Olympics Games



## Conclusion

- The Olympics games being held for 27 times since 1896 and 22 different cities around the world hosted the games.
  - London hosted the games maximum of 3 times, whereas Paris, Athens, Los Angeles hosted more than once.
- The participation level also increase dramitically in Olympics from 1896 onwards. It was 10 countries participated in FIRST Olympics games which rises to 86 Nations world wide by the year 2012. There is highly upwards trends and Olympics again Popularity in few years from start.
- The Medal won count increases over the period and from 1964, more than 1000 medals won by athletes in different events which rises close to 2000 medals.
- Australia, Great Britain, USA were dominating countries in MAX medal won count.
- URS,USA,GBR are the Countries with Maximum Number of Gold Medals in History
- From 1988 onwards, on an average 500 medals being won by different countries.
- Canoe, Trithalon, Teakwondo, Softball\_ are the Newest games added to Olympics.
- Athletics, Aquatics were the Sports with maximum events.
- Men were dominating in bagging Olympics medals but women Athlete also pick up the pace with time. 73% Men 27%
   Women
- Women Athlete Performance increased significantly over the period.
- LATYINA Laisa, Thompson Jenny, FISCHER Birgit are the TOP THREE women Athlete.
- Michael PHELPS, Paavo NURMI, Carl LEWIS are the TOP THREE Men Athletes.
- Indian Olympics Performance was good from 1928 to 1956 with on average 15 Medals per Olympics
- Indian Performance dropped from 1980 to 1996 with ZERO medal and gain momentum from 1996 onwards
- Leslie Walter Claudius was the first Indian to bag MEDAL in Olympics followed by UDHAM Singh Kullar, Balbir Singh

## Thank You