

# **EDA on Tokyo Olympics 2020**

## **Aim of the Analysis:**

To draw informative insights on Tokyo Olympics 2020 through visualisation.

## **About the Analysis:**

Tokyo Olympics 2020, officially the Games of the XXXII Olympiad and branded as Tokyo 2020, was an ongoing international multi-sport event being held from 23 July 2021 to 8 August 2021 in Tokyo, Japan, with some preliminary events that began on 21 July.

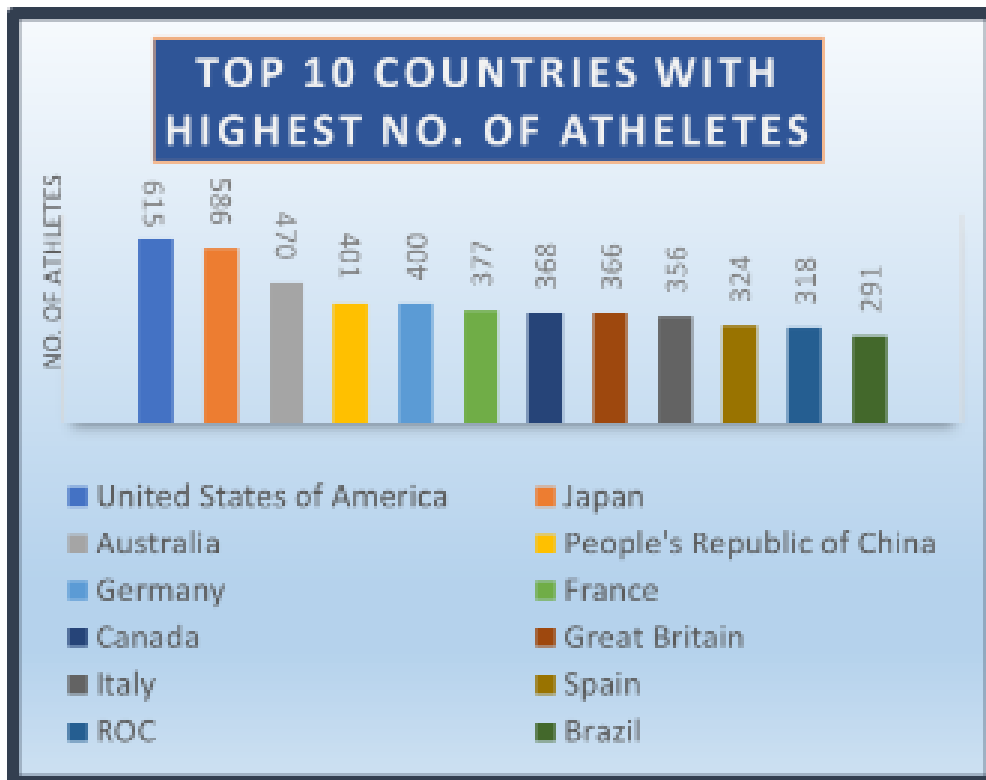
This analysis includes top 10 insights of-

- (a) Number of athletes participation per country
- (b) Which country has won maximum number of medals.
- (c) Gender-wise participation in the Olympics
- (d) Gender ratio per game
- (e) Most played games in Olympics 2020

Around 146 countries participated in the Tokyo Olympics 2020. 48 games were played altogether. There were men's team, women's team, mixed team, etc

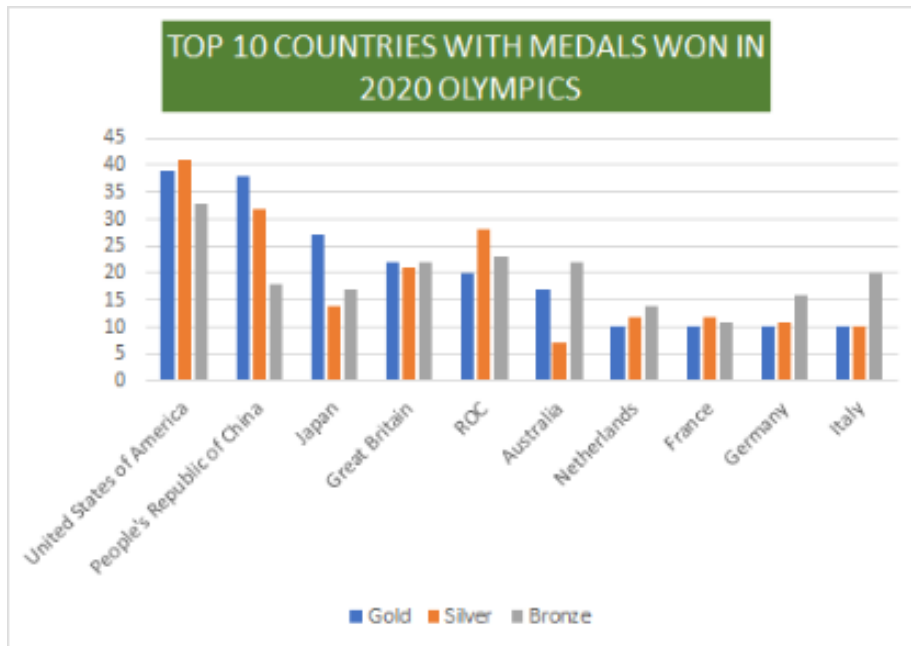
## Graphs and Interpretation:

1. Country-wise athletes participation is show in the graph below:

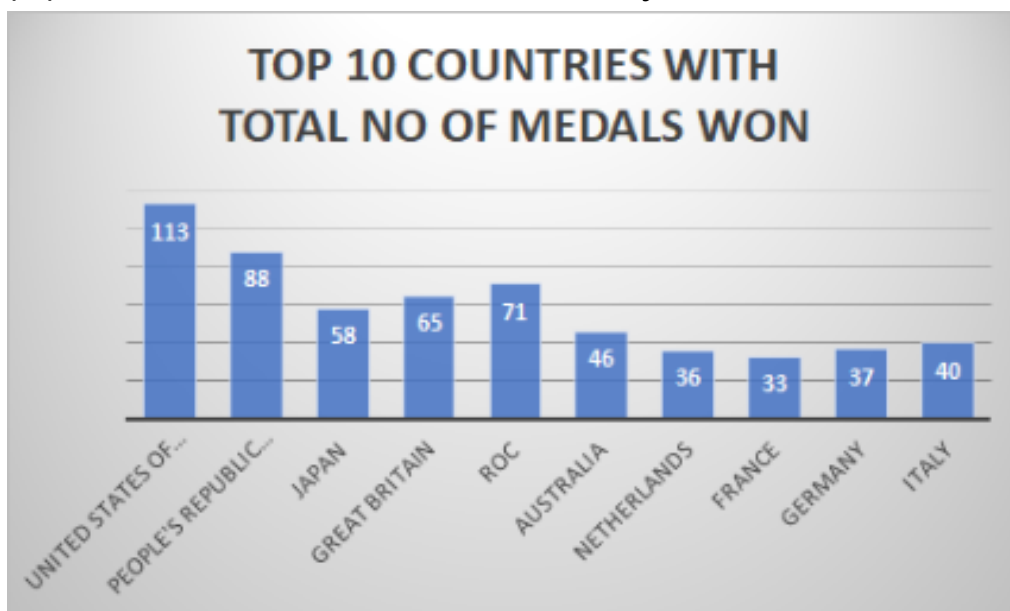


Interpretation: Thousands of athletes participated but as you can see, USA has the maximum number of athletes participating in Tokyo OLympics 2020 (615 athletes). It is then followed by Japan.

2. (A) Number of medals won by countries:

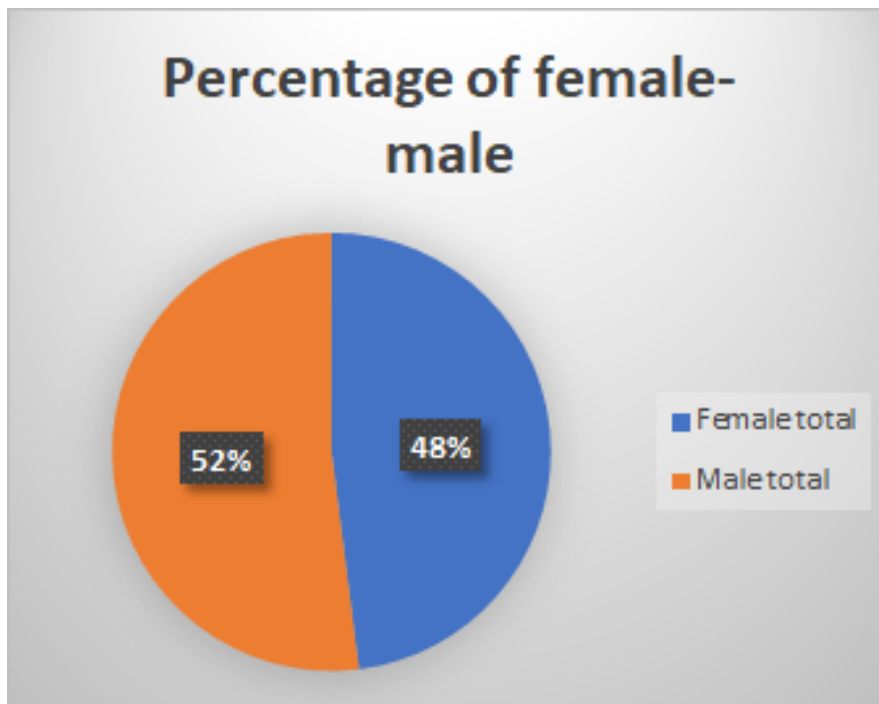


(B) Total number of medals won by countries:



Interpretation: Out of 146 countries, only 93 countries won medals. USA won 113 medals (39 gold, 41 silver, 33 bronze) altogether. It is further followed by People's Republic of China.

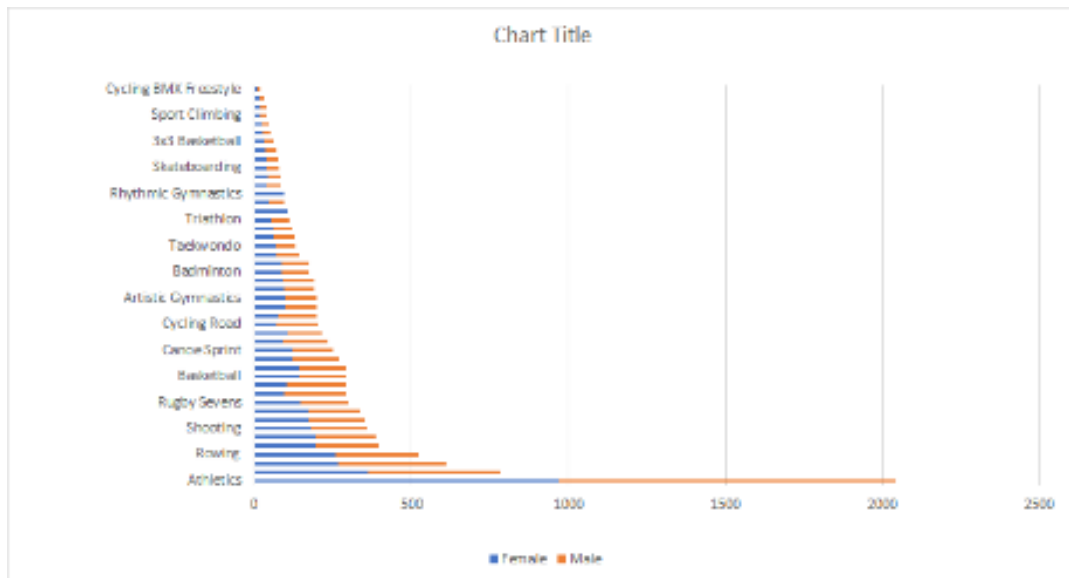
3. Percentage of female-male in the event:



Interpretation: In Tokyo Olympics 2020, 11,316 entries were recorded altogether out of which, 52% (5884) were male and 48% (5432) were female.

#### 4. Game with 100% gender-ratio:

$$\text{gender ratio} = \text{number of female} / \text{number of male}$$



Interpretation: Out of 48 games played in the olympics only 23 games had 100% gender ratio. (3x3 Basketball, Archery, Artistic Gymnastics, Basketball, Beach Volleyball, Canoe Slalom, Cycling BMX Racing, Cycling Mountain Bike, Golf, Handball, Hockey, Marathon, Swimming, Modern Pentathlon, Sailing, Shooting, Skateboarding, Sport Climbing, Surfing, Table Tennis, Taekwondo, Trampoline Gymnastics, Triathlon, Volleyball). Cycling BMX Freestyle and Diving had more than 100% gender ratio (number of male was greater than number of female). Rest 23 games had less than 100% gender ratio (number of male was less than number of female).

## 5. The most played game in Tokyo Olympics 2020:

Games	Number of Entries
Athletics	2041
Football	608
Handball	336
Hockey	384
Judo	393
Rowing	522
Rugby Sevens	297
Sailing	350
Shooting	356
Swimming	779

Interpretation: Among 48 games played in the olympics, Athletics was the most played game (it had over 2000 entries), followed by football.

### Data Source:

The dataset for the above analysis was taken from Kaggle.

<https://www.kaggle.com/arjunprasadsarkhel/2021-olympics-in-tokyo>

### Students Participation:

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