

OLYMPIC SPORTS PARTICIPATION AND PERFORMANCE

:DATA ANALYTICS

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INTRODUCTION

Olympics is considered as most important event worldwide, which provides common platform to players

from various nations to show their talents. Olympics has from various nations to show their talents.

Olympics has been started at 1896, which is being conducted once in every four years. The goal of this paper is to analyze every four years. The goal of this paper is to analyze performance and participation of nations in Olympics from 1896 to 2012.In

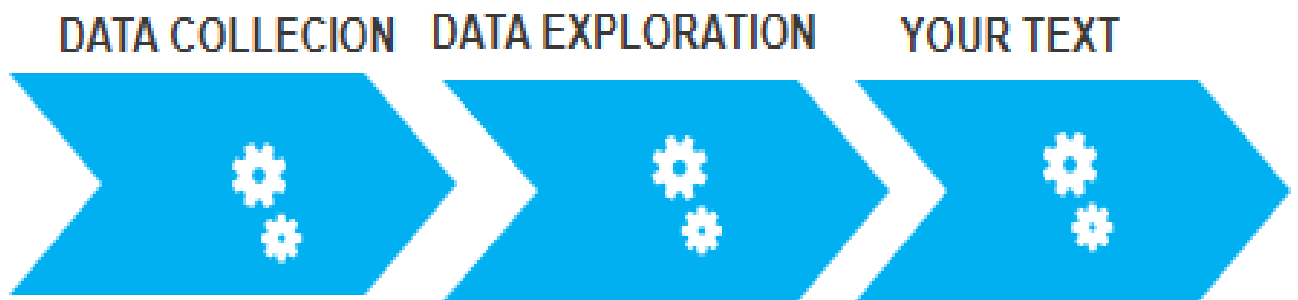
addition, the field of sports of particular country in particular year, in which they have contributed the maximum can be identified. The comparison of the performance of each sports with other can be done. The field of sports ,that has to have more participation can be performance of each sports with other can be done. The field performance of each sports with other can be done. The field of sports ,that has to have more participation can be identified and necessary action can be taken by players and nations to enhance themselves in future contributions

The **Olympic Games** are considered the world's foremost sports competition with more than 200 teams, representing sovereign states and territories, **participating**.

THE USE OF THE OLYMPICS SPORTS PARTICIPATION AND PERFORMANCE

Every two years, the Olympics and its media exposure provide athletes with the chance to attain national and sometimes international fame. The Games also provide an opportunity for the host city and country to showcase themselves to the world.

Block diagram



Hosting the Olympic games should bring more advantages than disadvantages:

Advantages

- Prestige from hosting the games attracts trade and tourism
- The **facilities** which are built for use during the games can be used for the cities population for years to come
- Businesses in the city see a massive increase in trade during the games (like hotels and restaurants etc)
- The organisers can try to make a profit out of the games

Disadvantages

- It is getting really expensive to host the games and more difficult to make any profit from it
- Any problems could mean the organisers lose money rather than make it
- Security must be a top priority to prevent terrorism and hooligans disrupting the games
- A cities infrastructure (transport and communication system) must be excellent to cope with the influx of visitors

conclusion

The exploratory data analysis on Olympic dataset provides statistical and visual representation of performance of nations, players in Olympics from the year

1896 to 2012. From the above analyses, it is useful to identify the country that needs more skills, the field of

sports in which players are performing well and players

who need practice to enhance themselves in upcoming

Olympics. The contribution of women in Olympics have

to be encouraged. Country which has least performance

have to find the steps to improve their performance

.

Country which has performed best so far will also consider to take measures to increase their performance.

OUTPUT SCREENSHOTS

1.

Output:

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 271116 entries, 0 to 271115
Data columns (total 15 columns):
#   Column      Non-Null Count  Dtype
---  ---
0   ID           271116 non-null  int64
1   Name         271116 non-null  object
2   Sex          271116 non-null  object
3   Age          261642 non-null  float64
4   Height       210945 non-null  float64
5   Weight       208241 non-null  float64
6   Team         271116 non-null  object
7   NOC          271116 non-null  object
8   Games        271116 non-null  object
9   Year         271116 non-null  int64
10  Season       271116 non-null  object
11  City         271116 non-null  object
12  Sport        271116 non-null  object
13  Event        271116 non-null  object
14  Medal        39783 non-null   object
dtypes: float64(3), int64(2), object(10)
memory usage: 31.0+ MB

   ID   Name   ...   Event  Medal
0    1   A Dijiang   ...   Basketball Men's Basketball  NaN
1    2   A Lamusi   ...   Judo Men's Extra-Lightweight  NaN
2    3   Gunnar Nielsen Aaby   ...   Football Men's Football  NaN
3    4   Edgar Lindenau Aabye   ...   Tug-Of-War Men's Tug-Of-War  Gold
4    5   Christine Jacoba Aaftink   ...   Speed Skating Women's 500 metres  NaN

[5 rows x 15 columns]

   ID   Age   ...   Weight
count  271116.000000  261642.000000  ...  208241.000000  271116.000000
mean    68248.954396    25.556898  ...    70.702393    1978.378480
std     39022.286345     6.393561  ...    14.348020     29.877632
min         1.000000    10.000000  ...    25.000000    1896.000000
25%     34643.000000    21.000000  ...    60.000000    1960.000000
50%     68205.000000    24.000000  ...    70.000000    1988.000000
75%    102097.250000    28.000000  ...    79.000000    2002.000000
max    135571.000000    97.000000  ...   214.000000    2016.000000

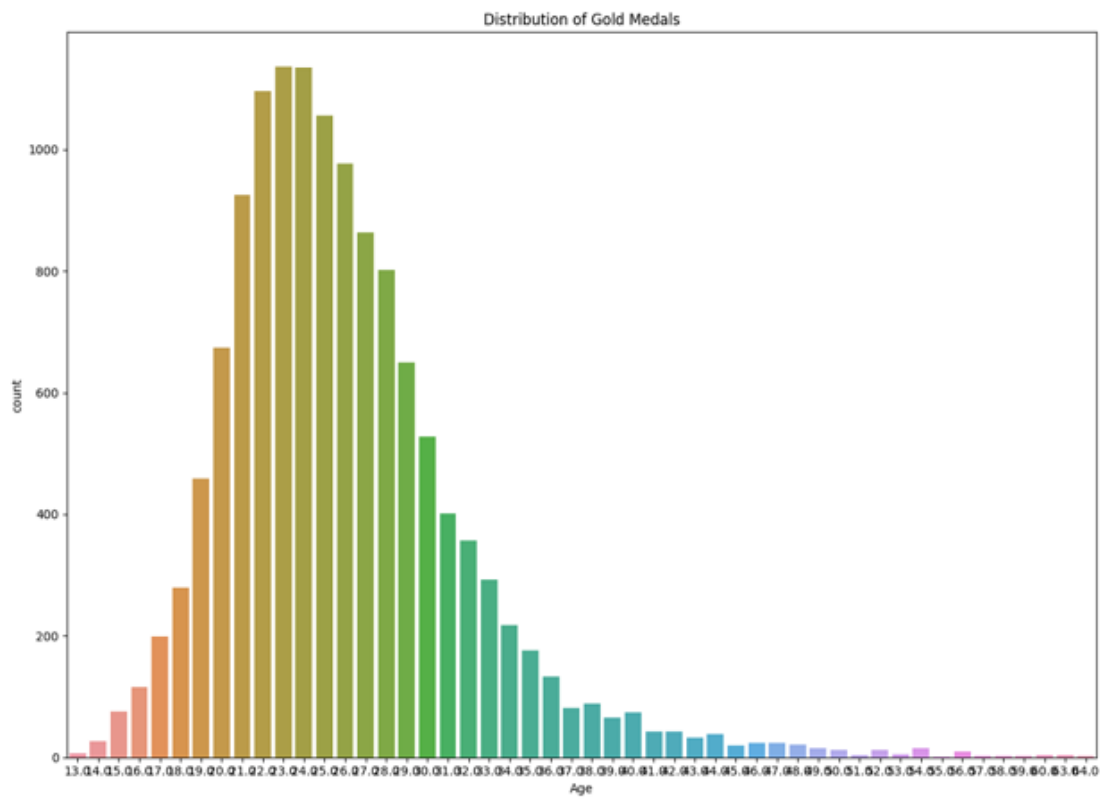
[8 rows x 5 columns] None

   ID   Name Sex   ...   Medal  region  notes
3    4   Edgar Lindenau Aabye  M   ...   Gold  Denmark  NaN
42  17  Paavo Johannes Aaltonen  M   ...   Gold  Finland  NaN
44  17  Paavo Johannes Aaltonen  M   ...   Gold  Finland  NaN
48  17  Paavo Johannes Aaltonen  M   ...   Gold  Finland  NaN
60  20    Kjetil Andr Aamodt  M   ...   Gold  Norway  NaN

[5 rows x 17 columns]
>>> |
```


2.

OUTPUT :



3.

Output :

