

Data-Driven Insights on Olympic sports

Short Term
Internship

Project report

Team members

- 1. Bandana**
- 2. Bhavana**
- 3. Srinu**
- 4. poojitha**
- 5. pujitha**

* OLYMPIC Sports

* Introduction:-

After a 1500 year absence of the ancient Olympic Games, the event was resumed in the nineteenth century, thanks to the efforts of Baron Pierre de Coubertin, a French Educator. In 1894, his proposal to revive the Olympic Games was unanimously approved at the International Congress in Paris, & the first Olympic Games were held in Athens, Greece two years later. He also devised the five-ring emblem that is familiar to most people as the Games' symbol, which represents the unity of the five continents. The history of the Olympics began some 2,300 years ago. Their origin lays in the Olympian Games, which were held in the Olympia area of

ancient Greece. Although there are some theories on its initial purposes, the Games have been said to have started as a festival of art & sport, to worship gods. The ancient Olympic Games, however, ended in 393 because of the outbreaks of wars in the region in which they were held.

* Overview of Olympics:-

Sports festival. In ancient Greece it was a Panhellenic festival held every fourth year and made up of contests of sports, music & literature. Since 1896 the name has been used for a modified revival of the ancient Games, consisting of international athletic Games, held at four year intervals. The original Games included footraces, the discus and javelin throw, the long jump, boxing, wrestling, the pentathlon & chariot races. After the

Subjugation of Greece by Rome, the games declined & they were finally abolished about AD 400. They were revived in the late 19th century through efforts led in part by pier baron de coubertin, the first modern Games were held at Athens. The first winter Games were held in 1924. The direction of the modern Olympic movement.

Purpose:-

The Olympic Games are an international Sports festival held every four years. The ultimate goals are to cultivate human beings through Sport, & contribute to world peace.

The first known Olympics were held in the Summer of 776 BC. at Olympia, a site in Southern Greece where people went to worship their gods. In fact, the Olympic were created in honour of ancient Greece's most famous god: Zeus, King of the gods.

- To cultivate the development of physical & moral qualities through amateur sports.
- Data analysis help in Sports entities evaluate the performance of their athletes & access the requirement necessary to improve the team performance. It also evaluate the strong & weak areas of the challenge, enabling Coaches to make the right.
- Visualization of data over various factors will provide us with the statistical view of the various factors which lead to the evolution of the Olympic Games & improvement in the performance.

2. Literature Survey:-

To undertake a review of the literature relating to public health planning & interventions at previous Summer Olympic & Paralympic Games & other relevant major Summer Sporting Events or mass gatherings, with a focus on official publications and peer-reviewed articles.

and peer-reviewed articles.

A literature review was undertaken using all biomedical database & a freetext search using google to widen the search beyond peer-reviewed publications. Search terms used were: Olympics; Paralympics - Search mass gatherings; mass gathering medicine; Sporting Events; weather; planning; by organization. Citations within articles were searched to identify additional references that would inform this review.

Data interpretation & analysis is one of the primary tasks in the field of big data analytics. There has been lots of analysis on the Olympic games like statistics visualization, performance analysis of players, improvement in the performance of various countries & more. The type of analysis which is quite popular & suitable while analysing the collection of Olympic is exploratory Data analysis.

2.1 Existing problem :-

The 2022 winter olympics took place b/w the 4 & 20 February 2022 & were hosted by in china in the capital city of Beijing. The country selected was the subject of various concerns & controversies about their cost, environmental impact, censorship, espionage, COVID-19, sportswashing, & human right issues.

From the beginning that the modern Olympic Games formed, Coubertin had decided to establish & governance of amateurism in the Olympic Games. He always tried to keep Olympics Games far from issues such as professionalism in sport, issues & political tensions, seeking power of some countries, racism & political supremacy. So by studying problems that threatens Olympic movement, can step important place to identify the main objectives & Olympic ideals more accurately & give proper strategy to deal

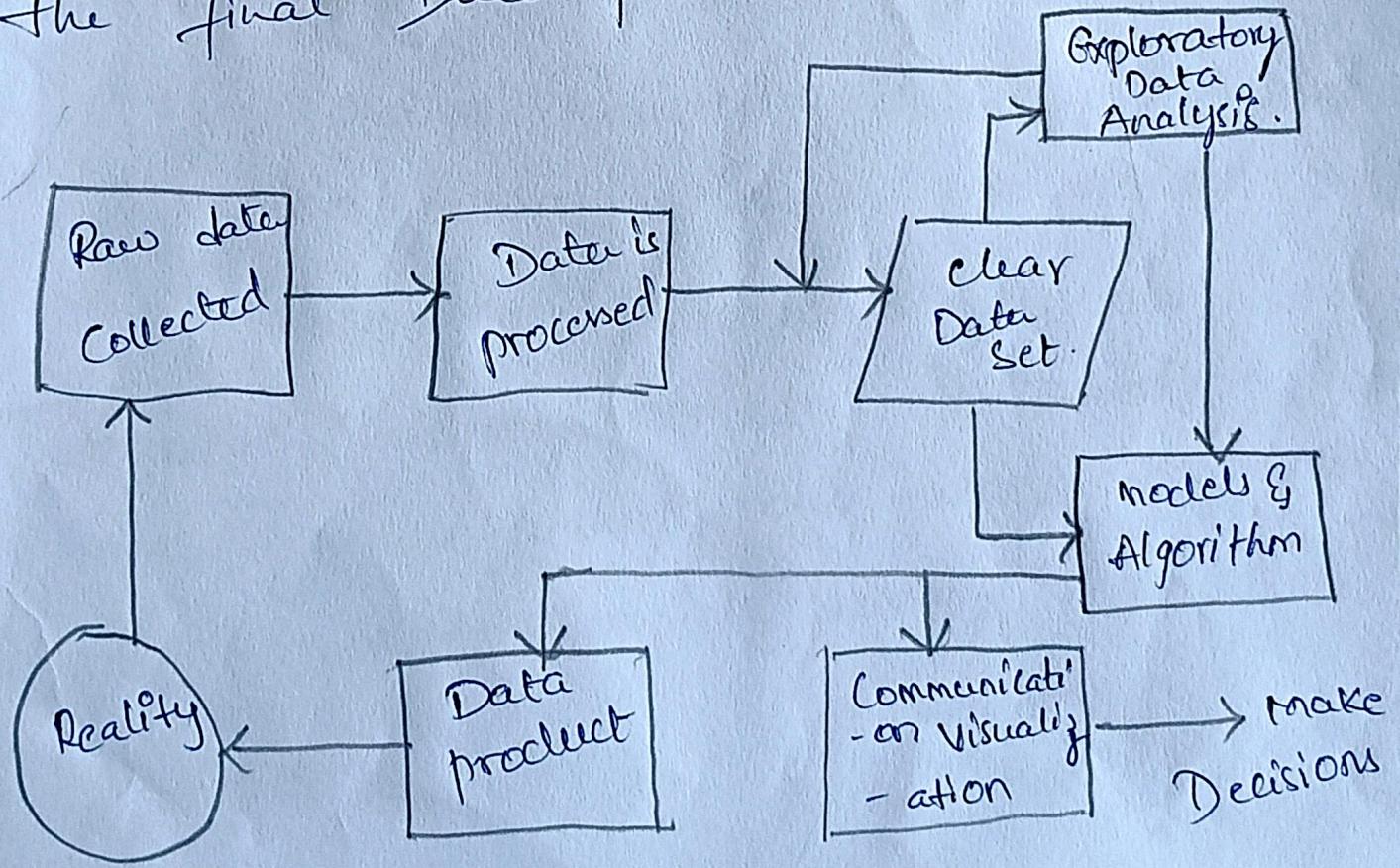
Subjugation of Greece by Rome, the Games declined; they were finally abolished about AD 400. They were revived in the late 19th century through efforts led in part by Pierre baron de Coubertin; the first modern Games were held in Athens. The first winter Games were held in 1924. The direction of the modern Olympic movement

2.6 PROPOSED Solution :-

It was carried out from April to June 2017, between seven months to one year after the Olympics to evaluate to one year after the Olympics to evaluate impressions after the games. By opting for a dual Summer/winter Games in 2022, Japan can host the Olympics. is an environment more condition to protecting public health, & the international community will not have to handle the consequence of staying silent in the fact of genocide.

Upholding the principles of the Olympic Games, as well as abiding by America Values, should take precedence over the potential Economic & diplomatic consequences of both postponing the 2021 Olympic & changing the venue for the 2022 Olympic. Going forward, the International Olympic Committee should also consider altering the process by which host cities are chosen, taking into consideration the values of host countries in conjunction with the stated values of the Olympics. While question on how to proceed with the next two Olympic games continue to concern the International Community, allowing Japan to dually host the Summer & winter Games in the year 2022 may serve as an elegant solution to this important & complex issue.

3. THEORETICAL ANALYSIS :- 3.1 Block Diagram:-
 This is an Exploratory Data Analysis in which firstly Raw data is collected and the Data is processed then we create a data module & we clean the dataset with unwanted matter & create relationship to the tables dataset & apply models & Algorithms and then we make the visualization like bar graph , Bubble plot, scatter plot, tree map etc. by using the data set modified & filtered & then the final Data product will be obtained.



3.2 Hardware / Software designing.

To provide year-round sports training and athletic competition in a variety of Olympic type sports for children & adults with intellectual disabilities, giving them continuing opportunities to develop physical fitness, demonstrate courage, experience joy and participate in a sharing of gifts, skills and friendship.

People & companies working at the Games Information Technology support usually break down software applications into three major groups. Resulting System, information Diffusion System & Games management Systems.

Recommended to use a windows - enabled Computer This recommendation is based on feed back from students who found many activities are easier to complete using windows 10 or 11.

*Advantages of Olympics:-

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

*Disadvantages of Olympics:-

- It is getting really expensive to host the games & 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 & hooligans disrupting the games.

- A city's infrastructure must be excellent to cope with the influx of visitors.
- Infrastructure challenges. Hosting a mega-event always involves urban renewal & regeneration.
 - Human rights violations
 - Fear & Security.
 - International prestige.

Applications:-

Sports analytics data help identify injury patterns & risk factors among athletes. By analyzing data on player workload, biomechanics, & medical history, teams can implement preventive measures & create personalized recovery plans, reducing the likelihood of injuries & keeping players fit & healthy.

Some common examples of technology applications include mobile apps, cloud computing, artificial intelligence, virtual & augmented reality, blockchain, robotics, and Internet of Things devices.

Conclusion:-

* In conclusion, the Olympics have been a substantial part of our culture today, as it was during the age of ancient Greece. The Olympics - Continue today in close replication of the classical Olympics. The Olympic games are an example of the many contributions ancient Greece has passed on to western civilization.

* The Story gives a powerful message about how to be a true friend and a true sportsman. Also, it give a lesson that we should be broadminded & give away the feelings of hatred or prejudices.

Future Scopes:-

* Stadium & Venues will become technology fortresses.

* Not surprisingly, future stadiums have to be equipped with state of the art of technology & Olympic Venues will form no exception. They also should be Environmentally friendly and Sustainable.

Result :- At last we got know how to get the outcomes with the given categories.

10/12/23, 3:39 PM

Tab 1

Team

1.18K

Team

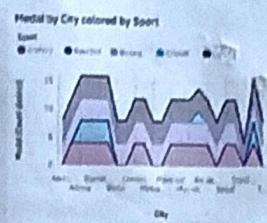
Year, Games

Games

- 1996 Atlanta
- 1992 Barcelona
- 1984 Los Angeles
- 1980 Moscow
- 1976 Montreal
- 1972 Munich
- 1968 Mexico City
- 1964 Tokyo
- 1960 Rome
- 1956 Melbourne
- 1952 Helsinki
- 1948 London
- 1936 Berlin
- 1932 Los Angeles
- 1928 Amsterdam
- 1924 Paris



OLYMPICS SPORTS DASHBOARD



10/12/23, 3:43 PM

sports story

SPORTS STORY



10/12/23, 3:43 PM

sports story

MEDAL BY TEAM

- This is a word cloud.
- it represents the medal achieved by the city.
- The size tells the amount of medals achieved by the city in particular sport.

City colored by Medal sized by Team

Team (Count dist... Medal

- Bronze
- Gold
- NA
- Silver



10/12/23, 3:43 PM

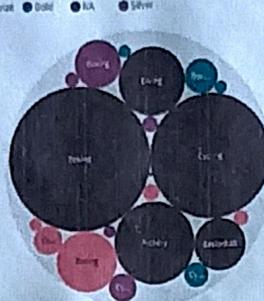
sports story

SPORTS BY MEDAL

- This is a hierarchy bubble chart.
- It represents the team achieved the medal at particular sport.
- The size of bubble defines the medal achieved in particular sport.
- The colour represents the medal's achieved in the sport.

Sport hierarchy colored by Medal and sized by Team

Team (Count dist.)



10/12/23, 3:43 PM

sports story

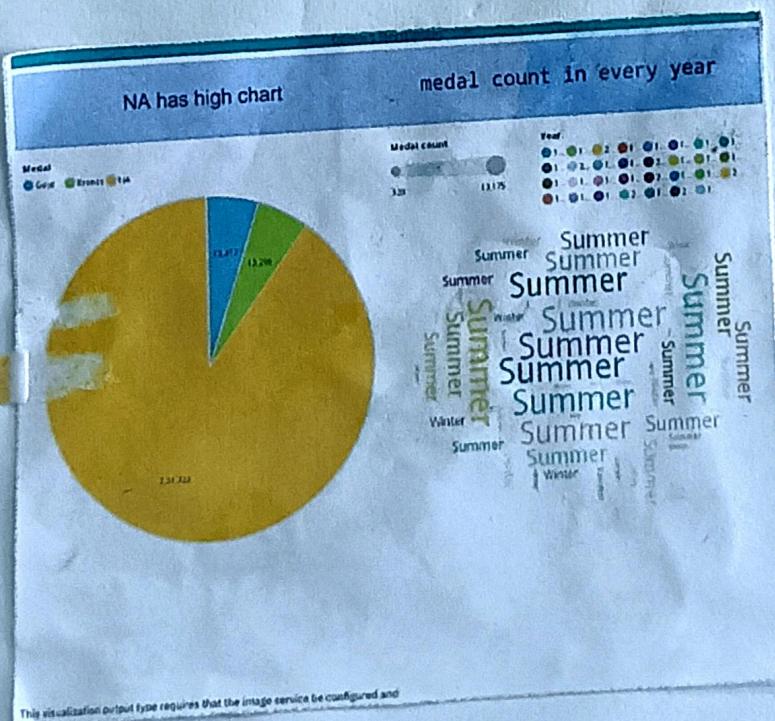
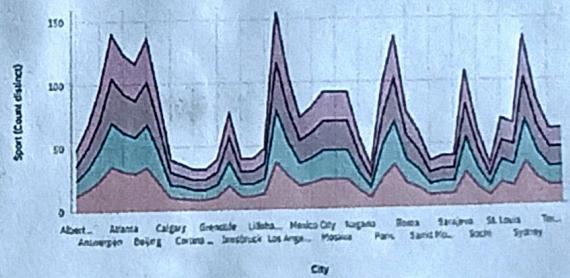
MEDALS BY SPORT

- This is a Area chart.
- It represents the medals that achieved by the city in that particular sport.

Sport by City colored by Medal

Medal

• Bronze • Gold • Silver



A screenshot of a code editor interface, likely Visual Studio Code, displaying a Python application structure and its associated HTML template.

File Explorer:

- File
- Edit
- Selection
- View
- Go
- Run
- Terminal
- Help

The sidebar shows the project structure:

- GP
- _pycache_
- static
- ▼ template
 - index.html
 - inner page.html
 - portfolio-details.html
- app.py
- Readme.txt

Code Editor:

portfolio-details.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta content="width=device-width, initial-scale=1.0" name="viewport">

    <title>Portfolio Details - Gp Bootstrap Template</title>
    <meta content="" name="description">
    <meta content="" name="keywords">

    <!-- Favicons -->
    <link href="assets/img/favicon.png" rel="icon">
    <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

    <!-- Google Fonts -->
    <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Raleway:300,300i,400,400i,500,500i,600,600i" rel="stylesheet">

    <!-- Vendor CSS Files -->
    <link href="assets/vendor/aos/aos.css" rel="stylesheet">
    <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
    <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
    <link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
    <link href="assets/vendor/lightgalleryjs/css/lightgallery.min.css" rel="stylesheet">
```

Terminal:

```
PS C:\Gp> & "C:/Users/Rohit raj gupta/AppData/Local/Programs/Python/Python312/python.exe" c:/Gp/app.py
PS C:\Gp> [ ]
```

On the right side, there are several floating UI elements and icons, including a search bar, a file tree, and various status indicators.