

Data-Driven Insights on Olympic sports

Short Term
Internship

Project report

TEAM MEMBERS:

- 1.G.MANIKANTA
- 2.G.CHAITANYA LAKSHMI
- 3.G.SAI KUMAR
- 4.G.VIVEK
- 5.G.RAJA

Olympic Sports:

Introduction: The term "Sport" in Olympic terminology refers to all events sanctioned by an international Sport federation, a definition that may differ from the common meaning of the word "Sport" one Sport by Olympic definition, may comprise several disciplines which would often be regarded as separate sports in common usage. The Olympic games features a wide range of sports that are categorized into three main groups, the Summer Olympics, the Winter Olympics and the Paralympics. The Summer Olympics include sports like Athletics, Swimming, Rowing, Wrestling, Weightlifting, and the Winter Olympics feature sports such as Alpine Skiing, Ice Hockey, Figure Skating, Snowboarding, Biathlon, Curling, Luge, Bob & Sleigh, Cross-Country Skiing, Speed Skating. These sports are governed by their respective international federations and are held every four years, alternating between Summer and winter games. The 2023 Winter Olympics included seven sports. Each Olympic sport is represented by an international governing body, namely an International Federation (IF). The International Olympic Committee (IOC) establishes a hierarchy of sports, disciplines and events.

Overview of Olympics:

The leading international operating events featuring Summer and winter Sports Competitions in which thousands of athletes from around the world participate in a variety of competitions. The ultimate goals are to cultivate human beings through Sport, and contribute to world peace. Summer Games and winter games are held separately. These sports show case a wide range of skills from endurance and strength to precision and agility, and they bring together athletes from around the world to compete at the highest level in the spirit of the Olympic sports. These are sports that have a permanent place in the Olympic program.

Purpose :-

The Olympic sports serve several important purposes.

1. Promote Unity and Peace: The Olympic sports to promote international unity and peace through sports. by bringing together athletes from all over the world. The games fosters a sense of camaraderie and mutual respect among nations.

- 3
- 2. Athletic Excellence: The Olympic provide a platform for athletes to showcase their skills and compete at the highest level. It celebrates human achievements in physical process and performance.
 - 3. Cultural Exchange: The games offer an opportunity for athletes and spectators to know about and appreciate the cultural of different countries. This cultural exchange fosters understanding and appreciation of diversity.
 - 4. Fair Competition: The Olympic movement emphasizes fair play and spirit of sportsmanship. Athletes compete based on merit and the game encourage ethics and integrity in sports.
 - 5. Inspiration: The Olympics inspire people of all ages to get involved in sports and physical activity. They motivate individuals to strive for excellence and reach their full potential in various disciplines.
 - 6. Global Sporting Showcase: The Olympics serve as a global sporting showcase, featuring wide range of sports and disciplines might not receive as much attention otherwise.

Literature Survey:

Conducting a literature review on Olympic Sports can be a comprehensive task, as it involves examining a wide range of academic and non-academic sources to gather information on various aspects of Olympic Sports. Here's a general guidance on how to approach a literature review in this field.

1. Define your Research Objectives: clearly define the scope and objectives of your literature review. Are you interested in a specific aspect of Olympic sports, such as their history, impact, controversies, or athletes' experiences?
2. Select relevant Keywords: Identify keywords and search terms related to your research objectives. For example, "Olympic Sports history," "Olympic athletes," "Olympic Controversies" and so on.
3. Search Academic Database: Access academic databases like PubMed, Google Scholar, JSTOR, and academic library catalogs to search for peer-reviewed articles, dissertations, and scholarly books related to Olympic Sports.



Existing Problem:

One existing problem in Olympic Sports is the issue of doping where athletes use performance-enhancing drugs to gain an unfair advantage. This undermines the principles of fair play and the integrity of the games. Efforts are continually being made to combat doping through testing and sanctions. There are several ongoing issues and challenges in Olympic Sports.



1. Doping: The use of performance-enhancing drugs continues to be a major concern despite anti-doping measures. Athletes sometimes find new ways to evade detection.

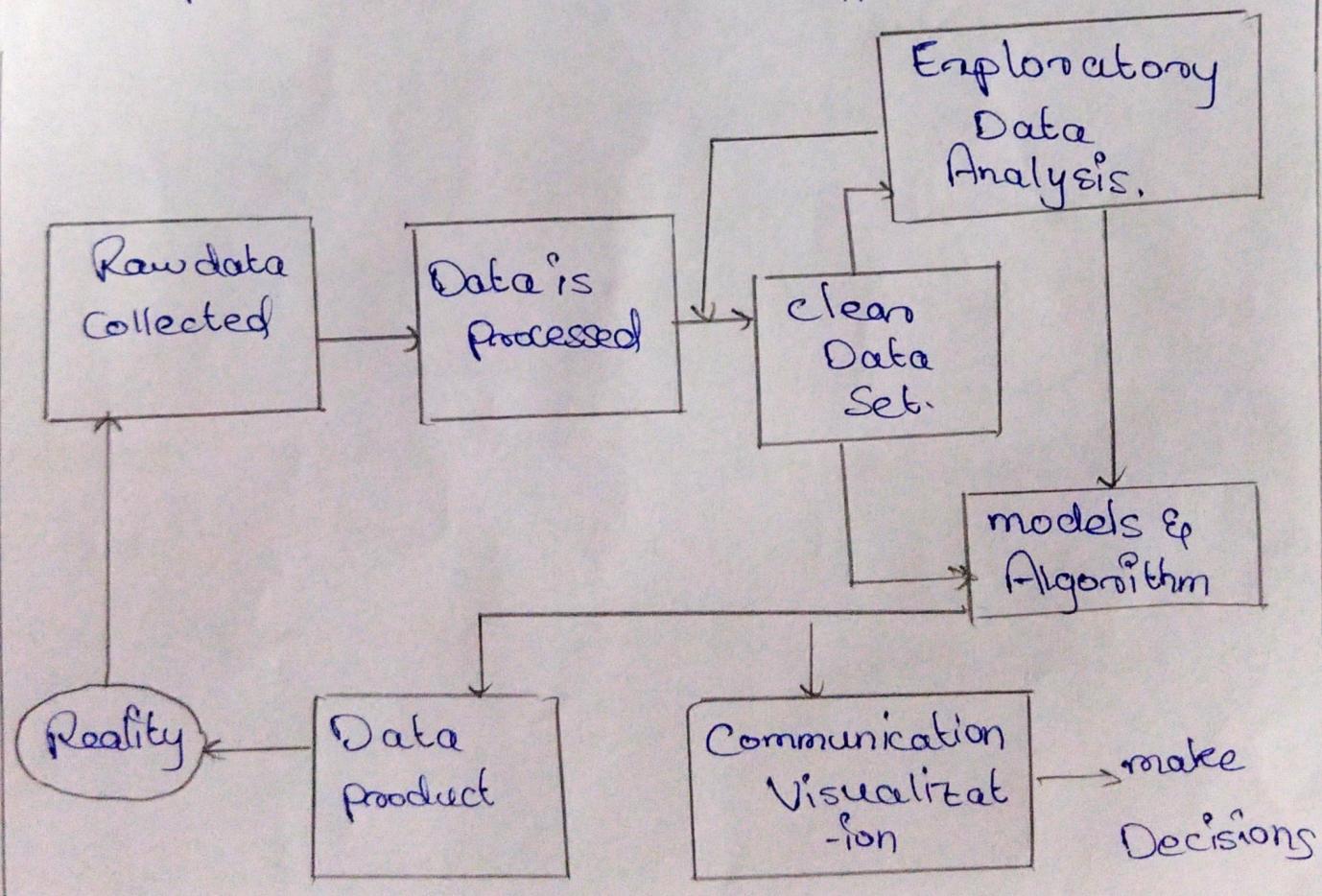
2. Corruption: Scandals related to bribery and corruption within the organization overseeing the Olympics have occurred, undermining trust and transparency.

3. Cost and Infrastructure: Hosting the Olympics can lead to excessive spending on infrastructure and facilities, sometimes leaving host cities with financial burdens.

4. Inclusivity: There's a need for greater gender equality and inclusivity in various sports, ensuring opportunities and recognition for all athletes.

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 data & apply models & Algorithm and then we make the Visualisation 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.

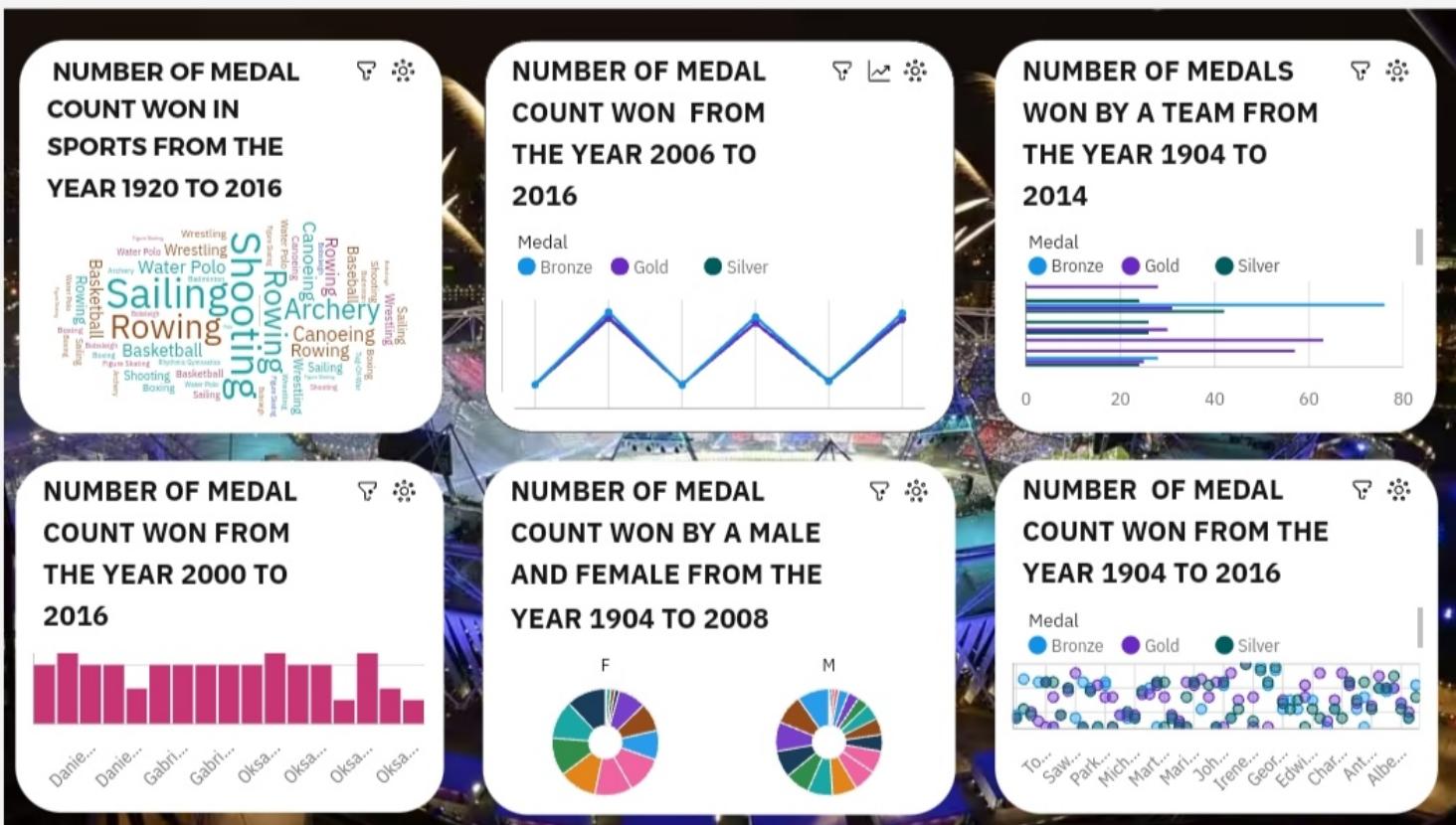


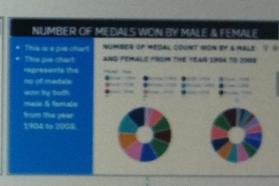
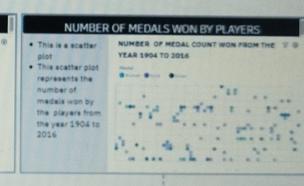
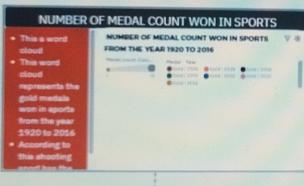
3.2 Hardware / Software Designing

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





● ● ○ ○

REDMI 9 POWER | MANI

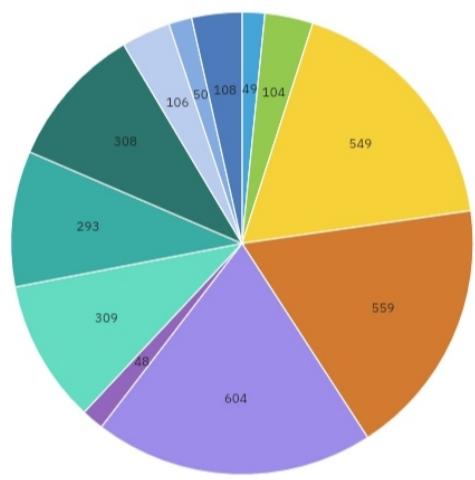
OLYMPIC SPORTS REPORT

NUMBER OF MEDALS WON IN GAMES FROM THE YEAR 1960 TO 1992

NUMBER OF MEDALS WON BY BOTH MALE & FEMALE FROM THE YEAR 1920 TO 2016

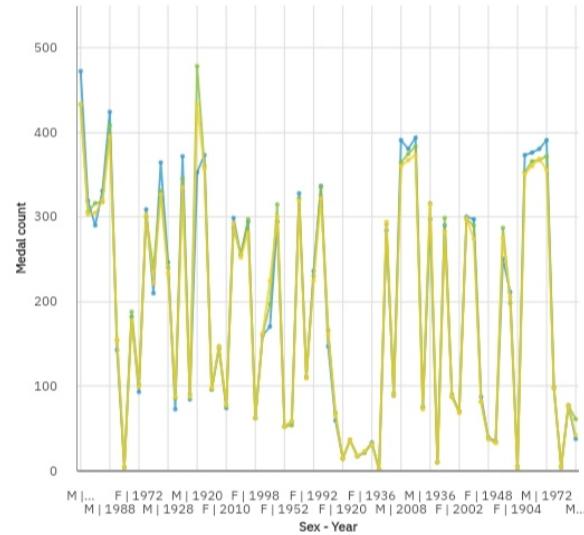
Year - Games - Medal

- 1960 | 1960 Winter | Bronze
- 1992 | 1992 Winter | Gold
- 1992 | 1992 Summer | Silver
- 1992 | 1992 Summer | Gold
- 1992 | 1992 Summer | Bronze
- 1960 | 1960 Winter | Silver
- 1960 | 1960 Summer | Gold
- 1960 | 1960 Summer | Bronze
- 1960 | 1960 Winter | Gold
- 1992 | 1992 Winter | Silver



Medal

- Bronze
- Gold
- Silver

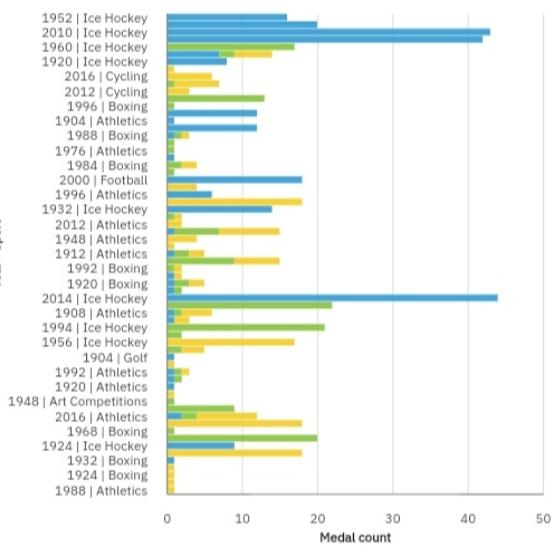


NUMBER OF MEDALS WON IN SPORTS FROM THE YEAR 1904 TO 2016

NUMBER OF GOLD MEDALS WON IN SPORTS FROM THE YEAR 1996 TO 2016

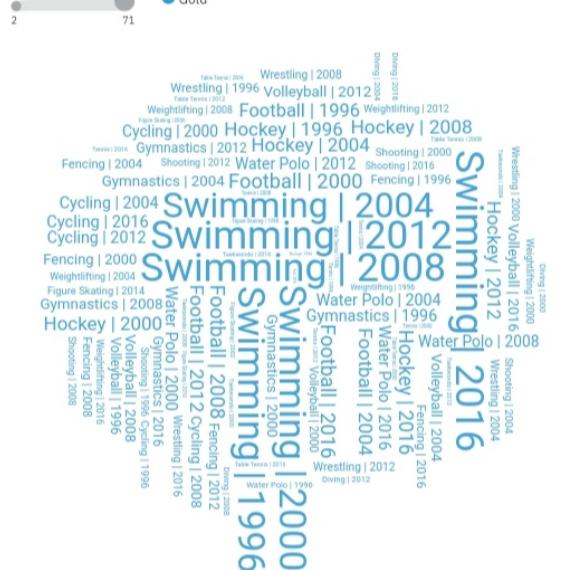
Medal

- Gold
- Silver
- Bronze



Medal count

- Gold



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 and give away the feelings of hatred or prejudices.

Future Scopes:

* Stadium & Venues will become techknow-lgy fortresses.

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

Development Environment Requirements:- Jupyter
Notebook, Google.

Operating Environment Requirements:- Linux
Windows.

API :- Streamlit an External Interface
Requirement functional requirement

Python, Spiders, Anaconda, Vscode, Bootstrap
pmade.