**Sports Analytics**

**MECE Framework for Olympic Games Analysis:**

**1. Overview of the Olympic Games**

* **1.1 Historical Background**
  + Evolution of the Games (from 1896 to present)
  + Summer vs. Winter Olympics
* **1.2 Organizational Structure**
  + Role of the International Olympic Committee (IOC)
  + Host cities and rotating nature of the Games
  + Participation of National Olympic Committees (NOCs)

**2. Sports and Events Analysis**

* **2.1 Sports Participation**
  + Number and type of sports (Summer vs. Winter)
  + Evolution of sports (new additions, removals)
  + Sport popularity (number of events per sport)
* **2.2 Event Gender and Category Analysis**
  + Gender distribution across events (Men’s, Women’s, Mixed)
  + Evolution of gender balance in events (inclusion of women’s events over time)
* **2.3 Event Performance**
  + Top performing events (by medal distribution, country dominance)
  + Emerging events (those that have grown in importance or new in the Olympic Games)

**3. Participant Analysis**

* **3.1 Athletes' Demographics**
  + Gender distribution of participants
  + Age distribution of athletes (average age trends over time)
  + Height and weight trends across Olympic athletes
* **3.2 Athlete Performance**
  + Top medalists (both individual athletes and countries)
  + Performance trends over time for athletes (e.g., new records, consistency)
  + Breakout athletes and their influence on the Games

**4. Medal Distribution**

* **4.1 Medal Count by Country/Region**
  + Top countries historically in gold, silver, and bronze medals
  + Regional dominance in Summer vs. Winter Olympics
* **4.2 Medal Trends Over Time**
  + Growth or decline in overall medal count for countries
  + Emerging countries in terms of medal performance
* **4.3 Medal Allocation by Sport/Event**
  + Top sports by number of medals awarded
  + Comparison of medal distribution in different types of events (e.g., individual vs. team)

**5. Regional Representation**

* **5.1 Countries Participation Trends**
  + Number of countries participating by year (growth, political shifts)
  + Notable absences and returns of countries
* **5.2 Regional Performance**
  + Performance by continent/region (Asia, Europe, North America, etc.)
  + Shifts in regional dominance over time
* **5.3 Regional Growth and Development**
  + Increase in participation and medal success from emerging countries or regions
  + Role of Olympic Games in promoting sports development in various regions

**6. Host Cities and Locations**

* **6.1 Hosting Trends**
  + Number of host cities over time (growth, distribution across continents)
  + Frequency of hosting (how often certain cities/countries host the Olympics)
* **6.2 Impact of Hosting on Local Communities**
  + Infrastructure and long-term benefits for host cities
  + Legacy of Olympic Games in host countries (sports development, tourism)
* **6.3 Unique Hosting Scenarios**
  + Cases of multiple cities hosting (e.g., 1956 Olympics, Melbourne-Stockholm)
  + Remote/first-time hosting (new or unique locations)

**7. Recommendations for Future Olympics**

* **7.1 Sports and Event Selection**
  + Suggestions on sports to add or remove based on participation and popularity trends
  + Gender parity recommendations for future events
* **7.2 Regional Representation**
  + Recommendations for increasing diversity and equitable representation of underrepresented regions
  + Strategies for promoting broader participation from emerging nations
* **7.3 Olympic Games Organization and Legacy**
  + Best practices for organizing future Olympics based on past challenges and successes
  + Recommendations for cities and countries interested in hosting the Games