Sports Performance Analysis: Athlete Demographics: Evaluate the performance of athletes in different Olympic Examine the sports, including medal counts, demographics of Olympic records, and trends over time. athletes, including age, Identify factors that may influence sports performance, gender, and nationality, to such as training methods, identify any trends or technological advancements, disparities in participation. and rule changes. **Sporting Events and Participation Trends: Disciplines:** Analyze historical data to Investigate the popularity understand how athlete and growth of various participation in the Olympic Olympic sports, as well as Games has evolved over the introduction or time, both in terms of the removal of specific sports number of athletes and the and disciplines from the diversity of countries and regions represented. Games. Data driven insights on olympic sports participation and performanace The problem at hand is to gain data-driven insights into Olympic sports participation and performance. The primary objective is to analyze historical data related to Olympic Games, including athlete participation, sports performance, and related factors, in order to extract valuable insights that can inform various stakeholders, such as athletes, coaches, sports organizations, and policymakers. **Economic and Geopolitical** Data Visualization: **Factors:** Create visualizations and reports that effectively Explore how economic and communicate the insights geopolitical factors, such as derived from the data host country wealth and analysis, making it political events, influence accessible to a broad athlete participation and audience performance. **Performance Predictors: Long-term Trends:** Develop models or Identify long-term trends and patterns in Olympic algorithms that can sports participation and predict athlete performance that may performance based inform future decisions on historical data and and policies in the world various influencing of sports. factors.