**Futurense Internship Capstone Project Importance Matrix**

**P1: Core Insights and Analysis**

**Objective:** Derive fundamental insights from the dataset, with a focus on athlete demographics, performance, and medal outcomes.

**Task:** Investigate demographic patterns, performance metrics, and medal distributions.

**Wajith:** Take the lead in statistical analysis, employing advanced methods to uncover deeper insights into the factors most strongly associated with winning medals.

**Details:** Utilize regression models to assess how age, height, and weight influence performance across different sports; examine trends in medal distribution by country and gender over time.

**P2: Comparative Analysis and Evolutionary Trends**

**• Objective:** Explore the evolution of the Olympics, including the introduction of sports, athlete participation, and performance standards.

**• Task:** Conduct a chronological analysis to identify changes and trends in Olympics data across various years and seasons.

**• Wajith:** Lead the examination of temporal trends, focusing on shifts in athlete demographics, the addition of new sports, and fluctuations in performance standards over time.

**• Details:** Employ line graphs to illustrate the changing average age, height, and weight of athletes over time; use bar charts to compare the number of events, athletes, and participating countries across Olympic Games.

**P3: Detailed Analysis of Sports and Events**

**Objective:** Delve into individual sports and events to uncover unique insights and patterns.

**Task:** Examine specific sports and events for patterns in performance, participation, and medal achievements.

**Ashwin:** Take charge of analyzing the top sports with the highest participation and medal counts, identifying key factors contributing to success in these areas.

**Details:** Concentrate on sports with the highest participation rates; conduct cluster analysis to identify groups of sports with similar characteristics in terms of athlete demographics or performance metrics.

**P4: Presentation and Visual Representation**

**Objective:** Develop engaging and informative visualizations and presentations to communicate insights from the analysis.

**Task:** Create visualizations and craft a comprehensive presentation of the project's findings.

**Zaid:** Responsible for producing visual materials and crafting the narrative for the presentation, ensuring that the data story is accessible to all audience members.

**Details:** Develop infographics summarizing key demographic trends, interactive charts illustrating medal counts and performance metrics over time, and slides outlining the project's most compelling findings.

**Review and Refinement**

**Objective:** Ensure the analysis is thorough, comprehensive, and ready for presentation.

**Task:** Conduct a meticulous review of all analyses and the final presentation.

**Wajith and Ashwin:** Collaborate on a final review of the statistical analysis and presentation materials, ensuring accuracy and clarity.

**Zaid:** Assist in refining the presentation based on feedback from Wajith and Ashwin, with a focus on narrative coherence and visual impact.