**Futurense Internship Capstone Project**

**Project Outline**

**Title:** Decoding Olympic Glory: An In-depth Data Journey

**Objective:**  
Dive deep into the ocean of Olympic Games data to surface with unparalleled insights into athletic performance, participation dynamics, and the socio-economic threads interwoven with the fabric of the Games. This analysis aims to spotlight the elements fueling Olympic success, trace the evolutionary arc of the Games, and decode the impact of global sporting unity on societal milestones.

**Team Dynamics**

**Team Name:** Brand Builders

**Decoder Roster:**

* **Ashwin B**   
  USN: 22BTRAD006
* **BLN Wajith Ali**   
  USN: 22BTRAD009
* **Mohd Zaid**   
  USN: 22BTRAD026

**Data Foundation**  
Sourced from a trusted public repository, our analytical arsenal consists of two pivotal CSV files bundled within the "Olympic Dataset" archive. These files serve as the cornerstone of our investigative odyssey:

1. **Athlete Events File:** A comprehensive dataset capturing the essence of 271,116 Olympic journeys across 15 dimensions, including athlete identifiers, demographic details, team affiliations, event specifics, and the honors bestowed.
2. **NOC Regions File:** This dataset, though more concise, is potent with 230 entries. It maps the National Olympic Committees (NOC) to their respective global regions, adding a layer of geographical and cultural context to our analysis.

**Expedition Milestones**

1. **Stage One: Data Reconnaissance**
   * **Objective:** Embark on a meticulous expedition to acquaint ourselves with the dataset's landscape. This phase is dedicated to unearthing the structural nuances, statistical footprints, and the initial anomalies within our data realm.
2. **Stage Two: Data Refinement**
   * **Objective:** With a surgeon's precision, address the dataset's imperfections. This involves cleansing the data of inaccuracies, filling the voids of missing values, and sculpting our data into a pristine form, ripe for analysis.
3. **Stage Three: Analytical Alchemy**
   * **Objective:** Transform raw data into golden insights through a strategic blend of statistical rigor and analytical acuity. This stage is the heart of our quest, where data is dissected, patterns are woven, and stories are born.
4. **Stage Four: Insight Illumination**
   * **Objective:** Craft a narrative that transcends numbers. This final phase is about sharing our discoveries in a manner that resonates, enlightens, and inspires our audience.

**Decoder Duties**

* **Athlete and Event Dynamics Analysis**
  + **Lead:** Ashwin B
  + **Objective:** Unravel the tapestry of athlete demographics, event participation, and the luster of medals across the chronicles of Olympic history.
* **Temporal and Evolutionary Analysis**
  + **Lead:** BLN Wajith Ali
  + **Objective:** Chart the course of Olympic evolution, tracing the silhouette of time through the introduction of sports, the flux of participation, and the shifting sands of performance benchmarks.
* **Visualization and Storytelling**
  + **Lead:** Zaid
  + **Objective:** Weave the threads of our analysis into a visual and narrative tapestry that captivates, educates, and engages, turning data points into landmarks of insight.

**Challenges Ahead**

* **Data Quality and Completeness:** The quest may be hindered by gaps in our map, where data anomalies and voids challenge the integrity of our insights.
* **Analytical Complexity:** The labyrinthine complexity of the data demands not just analytical skill but also the wisdom to navigate its depths.
* **Technical Rapids:** The journey is fraught with the rapids of technical intricacies, demanding mastery over tools and techniques to harness the true power of our analysis.

**Deliverables**

* **Analysis Blueprint:** A comprehensive guide detailing our methodological approach, from data wrangling to analytical exploration.
* **Insight Report:** A document encapsulating our findings, adorned with patterns, trends, and the narratives unearthed from the depths of data.
* **Visual Storyboard:** A collection of graphical narratives, each telling a story, each insight a brushstroke on the canvas of Olympic glory.

**Timeline**

* **Final Reveal:** 10/04/2024 – A day marked for the unveiling of insights, the sharing of stories, and the celebration of knowledge gleaned from the Olympic data odyssey.

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