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Assignment name - Analysis of Olympic Medal Trends
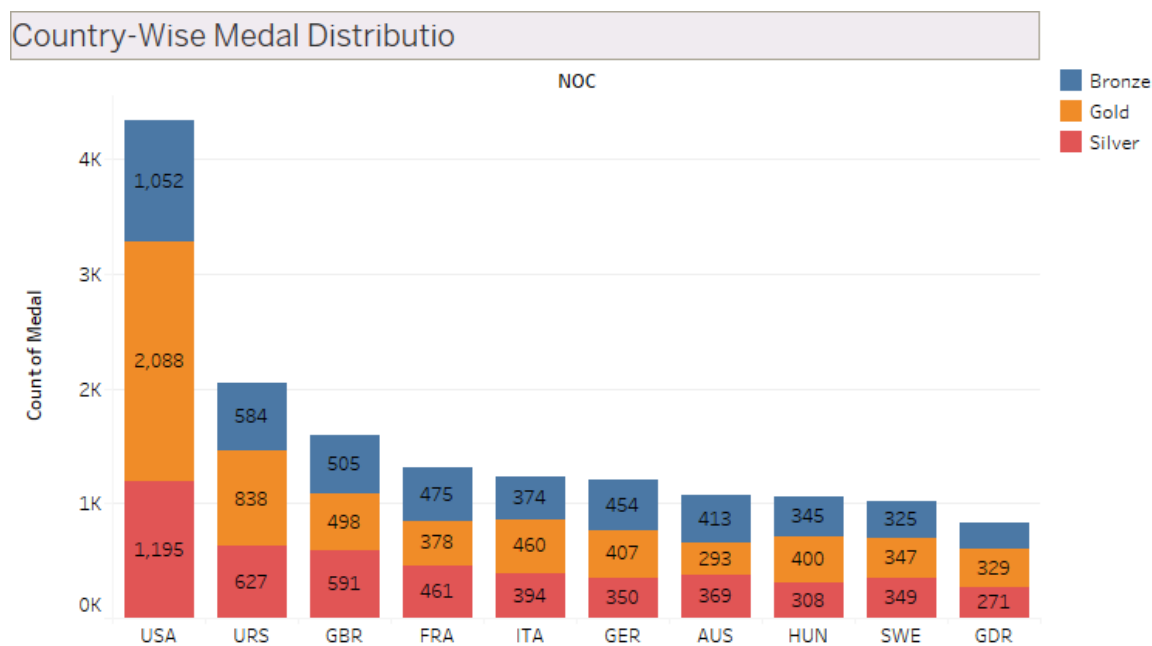
Submission Date - 21/04/2025

Tableau public Link - tableau public to view Dashboard

Github link - tableau file

Analysis of Olympic Medal Trends

## Module 1: Country-Wise Medal Distribution

Insight: Nations like the USA and Russia have historically dominated; emerging trends from countries like China post-1990.

Goal: Rank nations by total medals. Filter to Top 10.

Count of Medal for each NOC. Colour shows details about Medal. The marks are labelled by count of Medal and Medal. The view is filtered on NOC, which keeps 10 of 138 member
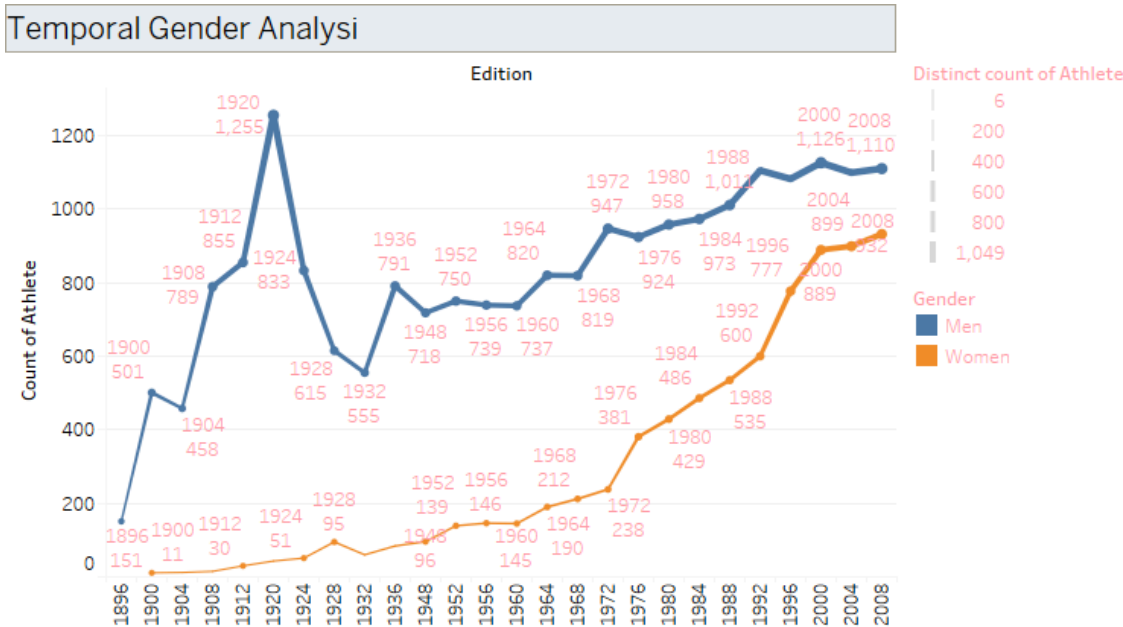
Module 2: Athlete-Level Performance Density
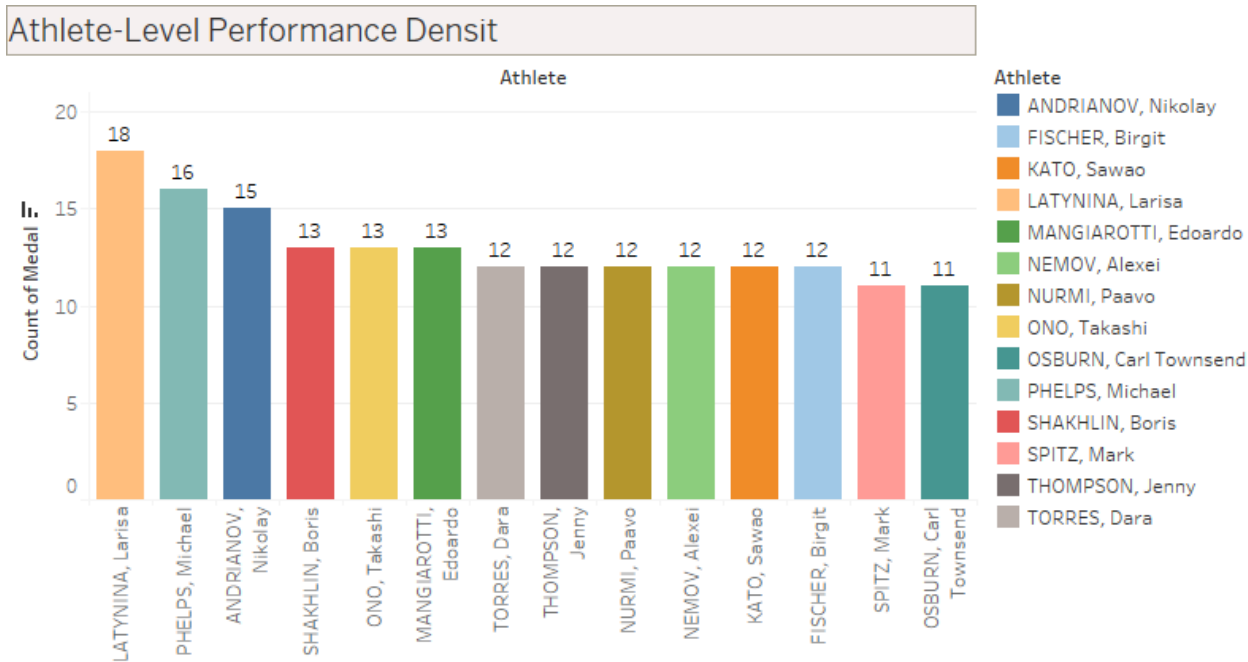
Insight : Larisa Latynina, Michael Phelps, and Usain Bolt exemplify sustained excellence in specific disciplines.

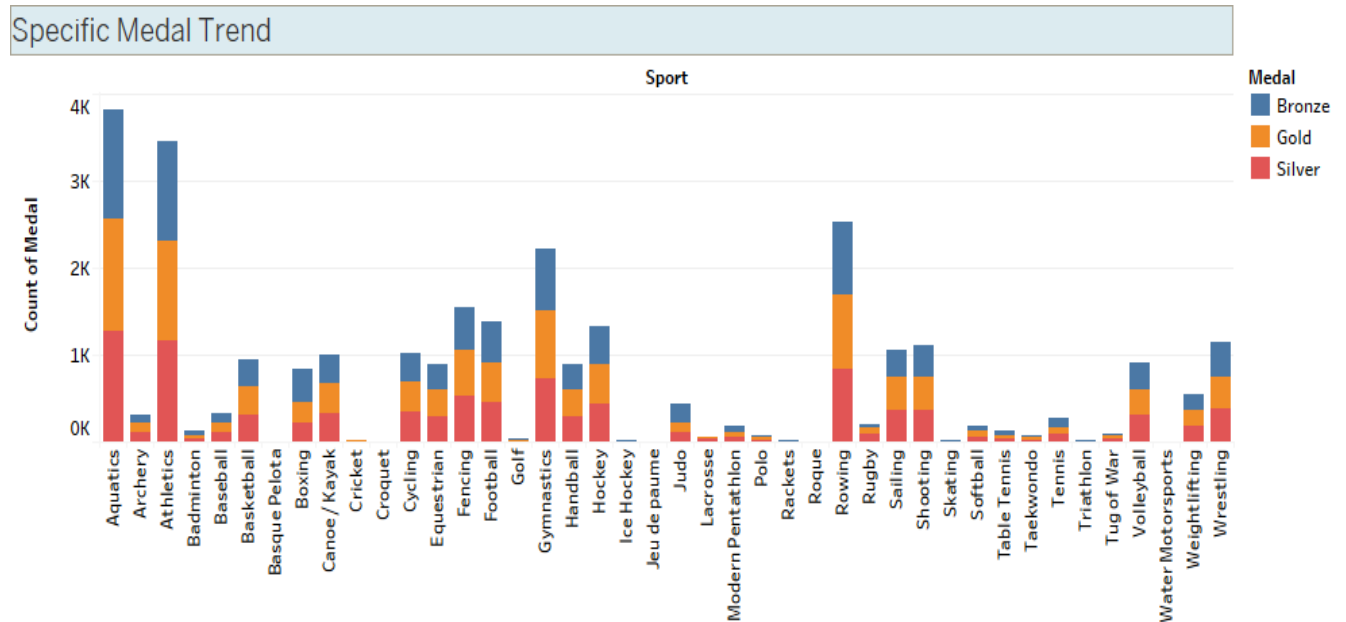**Goal** : Highlight repeat medalists and quantify individual dominance.

Module 3: Temporal Gender Analysis

Module 4: Sport-Specific Medal Trends

Insight : Athletics and Aquatics dominate. Sports like Gymnastics and Fencing show high medal density but are niche.

Goal : Determine which sports yield the highest medal counts

Key Analytical Findings

 Country Performance

    The USA holds the highest cumulative medal count
    China and Australia showed sharp upward trends in the late 20th century.

Athlete Excellence

    A handful of athletes have won medals across 2–4 Olympic editions
    Many stars dominate only one discipline, indicating specialization.

Gender Dynamics

The Olympics remained male-heavy until the late 20th century
Women's representation is now approaching parity in some sports.

Sport Dominance

Athletics, Aquatics, and Gymnastics account for the lion's share of medals.
Newer sports entering the Olympics may alter future patterns.

Strategic Recommendation

1. Investment Strategy for Countries

Prioritize training in high-medal-density sports (e.g., Swimming, Track & Field). Analyze cost-per-medal metrics to optimize ROI.

2. Gender Equity Roadmap

IOC should continue enforcing minimum gender participation quotas and promoting women's events globally.

3. Talent Identification Models

Build athlete prediction models using repeat performer patterns to optimize early-stage talent pipelines.

4. Sporting Evolution Monitoring

Conduct separate trend tracking for newly added Olympic sports to monitor disruption to legacy patterns.