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| Date | 19-06-2025 |
| Team ID | LTVIP2025TMID48223 |
| Project Name | Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis |
| Maximum Marks |  |

**Model Performance Test**

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| **S.no.** | **Parameter** | **Screenshot / Values / Description** |
| 1 | Data Rendered | Data includes country-level economic freedom metrics across 12 indicators grouped into 4 pillars: Rule of Law, Government Size, Regulatory Efficiency, and Open Markets. Volume: Data from 180+ countries over multiple years. Screenshot: Country score table and global heatmap. |
| 2 | Data Preprocessing | Steps included: - Handling missing scores - Standardizing numerical scales - Normalizing indexes - Merging regional classifications. Tools Used: Tableau Prep, Excel, and Python (Pandas). Screenshot: Normalized table and prep workflow. |
| 3 | Utilization of Filters | Filters implemented: - Year (2015–2022) - Region (Asia, Europe, etc.) - Income Level - Pillar-specific filters (e.g., Rule of Law). All filters are interactive and affect map/chart visuals instantly. Screenshot: Filter pane from Tableau dashboard. |
| 4 | Calculation Fields Used | Calculated fields include: - Average Pillar Score - Economic Freedom Index (weighted composite) - Region-wise mean deviation - Rank Change YoY - Indicator Contribution %. Screenshot: Formula fields panel in Tableau. |
| 5 | Dashboard Design | Number of visualizations: 6 Includes: - World Heat Map by Score - Pillar-wise Comparison Bars - Trend Line of Global Index - Income Group Performance - Region Drill-down - Top 10/Bottom 10 Countries. Screenshot: Final dashboard layout in Tableau. |
| 6 | Story Design | Stories built around: - Global Overview - Pillar Strengths/Weaknesses - Region Comparisons - Economic Trends - Index Rankings - Policy Recommendations. Story panels guide the user through analytical narratives. Screenshot: Story points with interactive navigation. |

## Summary

The model successfully visualizes international economic freedom data with a well-prepared, normalized dataset that supports time-based and region-based comparative analysis. Preprocessing ensured high data quality and consistency across 12 indicators. Interactive filters and calculated fields help users explore macroeconomic freedom across multiple dimensions.  
  
Dashboards provide intuitive insight into national, regional, and indicator-level performance. With 6 informative visuals and supporting storylines, decision-makers can interpret trends, spot policy gaps, and assess changes in economic freedom rankings. The system responds smoothly and renders data with minimal delay, fulfilling the analytical objectives of the project.