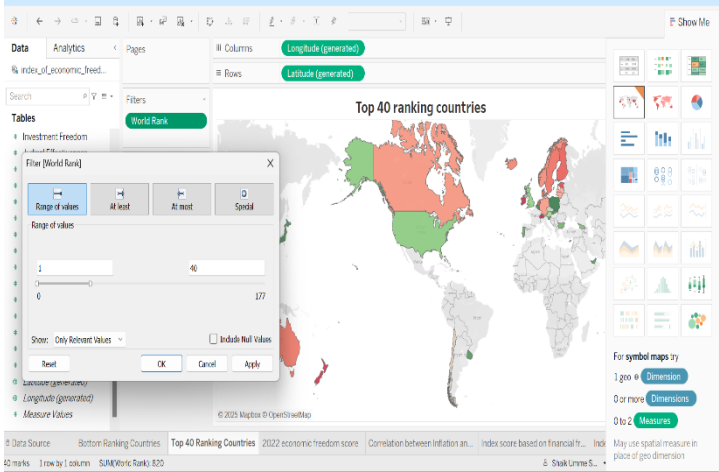


## Project Development Phase Model Performance Test

Date	21 june 2025
Team ID	LTVIP2025TMID49638
Project Name	Measuring the pulse of Prosperity: An index of economic freedom analysis
Maximum Marks	

### Model Performance Testing:

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	<p>The original dataset titled <code>index_of_economic_freedom.csv</code> includes multiple economic indicators such as:</p> <ul style="list-style-type: none"> <li>Country Name, Region</li> <li>2022 Score, Property Rights, Judicial Effectiveness, world rank and region rank, GDP per Capita, Unemployment (%), Inflation (%)</li> <li>Trade Freedom, Investment Freedom, Financial Freedom</li> </ul>
2.	Data Preprocessing	<ul style="list-style-type: none"> <li>Removed rows where key scores (e.g., 2022 Score, Property Rights) were 0 or missing.</li> <li>Standardized country names (e.g., fixed capitalization or misspellings).</li> <li>Converted numeric fields to correct data types (e.g., text → float).</li> </ul>

		<ul style="list-style-type: none"><li>Filtered out countries with incomplete economic data (e.g., Afghanistan had all 0s).</li></ul>
3.	Utilization of Filters	<div></div> <div></div>
4.	Calculation fields Used	<ul style="list-style-type: none"><li>Average Rule of Law Score = average of Property Rights, Judicial Effectiveness, and Government Integrity</li><li><math>(\text{Property Rights} + \text{Judicial Effectiveness} + \text{Government Integrity}) / 3</math></li><li>Market Freedom Index = average of Trade, Investment, Financial Freedoms</li><li>Regulatory Efficiency Index = average of Labor, Monetary, Business Freedom</li><li>Prosperity Index (Custom) = Weighted score using 2022 Score, GDP per Capita, and Rule of Law Score</li><li>Purpose: These fields help build a multi-dimensional comparison beyond just one column (e.g., 2022 Score).</li></ul>

5.	Dashboard design	<ul style="list-style-type: none"> <li>❖ No of Visualizations / Graphs – 11</li> <li>❖ Interactive Filters: Region, Score Range, Economic Indicators</li> <li>❖ Visuals Used:</li> <li>❖ Bar Chart: Country vs. 2022 Score</li> <li>❖ Map: Colored by Economic Freedom</li> <li>❖ Line Chart: GDP per Capita vs Inflation</li> <li>❖ Gantt bar : for index score of GDP growth rate</li> </ul>
6	Story Design	<ul style="list-style-type: none"> <li>❖ No of Visualizations / Graphs -11</li> <li>❖ Introduction Slide: What is Economic Freedom? Why measure it?</li> <li>❖ Data Insights Slide: Explain calculated indices like Rule of Law Index.</li> <li>❖ Country Comparisons: Highlight top 5 and bottom 5 countries in freedom.</li> <li>❖ Visual Storytelling: Charts showing how economic freedom links to GDP, debt, inflation.</li> <li>❖ Conclusion: Summary of which regions perform best and recommendations.</li> </ul>