

**Project Development Phase
Model Performance Test**

Date	21 June 2025
Team ID	LTVIP2025TMID47620
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
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1.	Data Rendered	<p>The dataset used in this project is based on the Index of Economic Freedom, primarily sourced from the Heritage Foundation, supplemented with data on GDP, unemployment, inflation, FDI, and public debt. It contains 177 rows, each representing a country, and approximately 32 columns capturing various economic and governance indicators.</p> <p>Key attributes in the dataset include:</p> <ul style="list-style-type: none"> • Country Name and Region (e.g., Asia-Pacific, Europe, Sub-Saharan Africa) • World Rank and Region Rank • 2022 Economic Freedom Score – the main index measuring economic liberty on a scale of 0 to 100. • Property Rights, Judicial Effectiveness, Government Integrity – used to assess the rule of law. • Tax Burden, Government Spending, Fiscal Health – used to measure government size and financial discipline. • Business Freedom, Labor Freedom, Monetary Freedom – showing regulatory efficiency. • Trade Freedom, Investment Freedom, Financial Freedom – assessing open markets. • Economic Indicators: <ol style="list-style-type: none"> 1. Population (Millions) 2. GDP (Billions USD) 3. GDP Growth Rate (%) 4. GDP per Capita (PPP) 5. Unemployment Rate (%) 6. Inflation Rate (%) 7. Public Debt (% of GDP) 8. FDI Inflows (Millions USD)
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commands on database: 1* [Index_of_economic_freedom.sql](#)

Info Columns Indexes Triggers Foreign keys Partitions Grants DDL

 Local instance MySQL93

Index_of_economic_freedom.Index_of_economic_freedom

Table Details

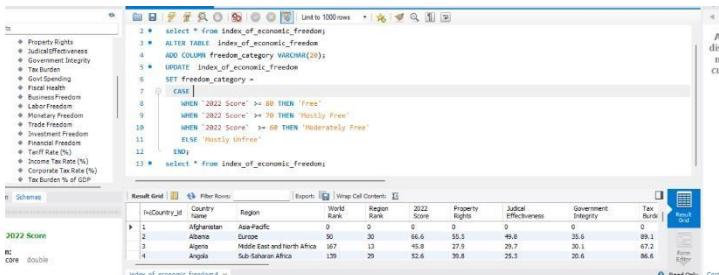
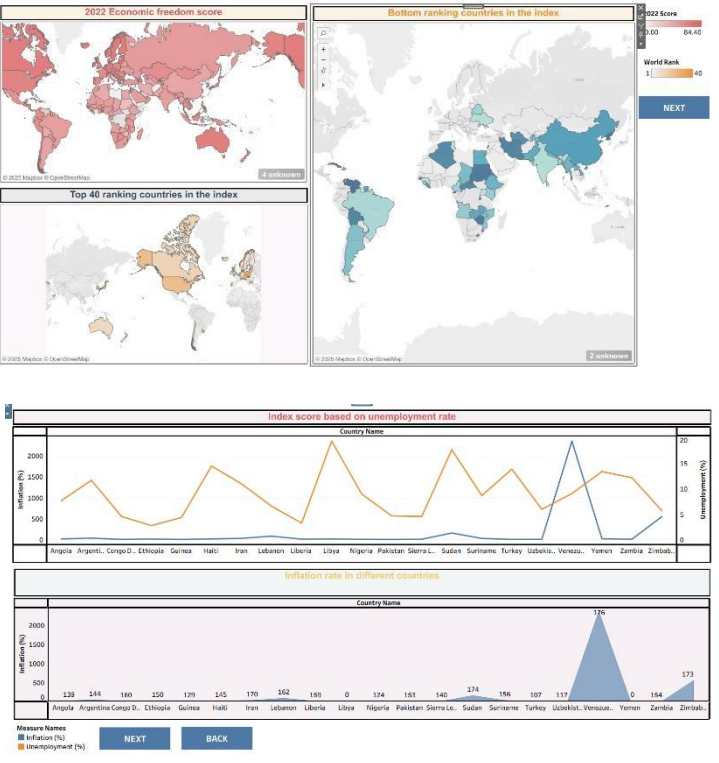
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AVG row length:	447
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Data free:	0.0 bytes
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Auto increment:	
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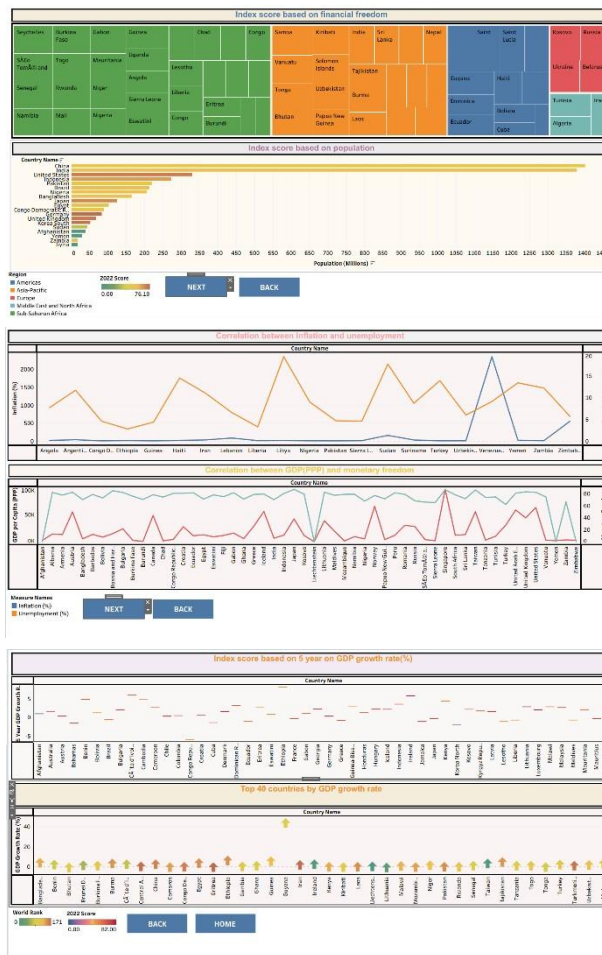
Information on this page may be outdated. Click [Analyze Table](#) to update it.

3.	Utilization of Filters	In the Index of Economic Freedom dashboard, multiple interactive filters were implemented to provide a dynamic, user-driven experience. These filters empower users such as policy makers, economists, and analysts to extract meaningful insights tailored to specific interests or regional contexts. 1. Region Filter
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		<ul style="list-style-type: none"> • Type: Dropdown or checkbox filter • Field Used: Region • Purpose: Allows users to focus on a specific geographical area, such as Asia-Pacific, Europe, Sub-Saharan Africa, Middle East, or Americas. • Use Case: Helps compare economic freedom indicators within a region and spot regional policy patterns or anomalies. <p>2. GDP per Capita Filter Type: Slider or grouped range (Low/Medium/High) Field Used: GDP per Capita (PPP) Purpose: Filters countries based on economic prosperity levels. Use Case: Study if higher GDP per capita correlates with higher freedom scores.</p> <p>3. Unemployment Rate Filter</p> <ul style="list-style-type: none"> • Type: Slider filter • Field Used: Unemployment (%) • Purpose: Helps analyze which freedom categories or regions are facing higher or lower employment challenges. • Use Case: Understand how economic freedom may impact job markets. <p>4. Inflation Rate Filter</p> <ul style="list-style-type: none"> • Type: Numeric range filter • Field Used: Inflation (%) • Purpose: Enables comparison of inflation control among countries with varying freedom scores. • Use Case: Reveal monetary policy strength across regions or freedom categories. <p>5. GDP Growth Rate Filter</p> <ul style="list-style-type: none"> • Type: Numeric slider • Field Used: GDP Growth Rate (%) • Purpose: Allows users to focus on fast-growing or struggling economies. • Use Case: Determine how freedom levels influence economic growth. <p>6. World/Region Rank Filter</p> <ul style="list-style-type: none"> • Type: Numeric range • Fields Used: World Rank, Region Rank • Purpose: Isolate top or bottom performers globally or regionally. • Use Case: Benchmark high performers or identify countries needing policy reform.
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<p>4. Calculation fields Used</p>	<p>The <code>freedom_category</code> is a derived field that classifies countries into four groups—Free, Mostly Free, Moderately Free, and Mostly Unfree—based on their Economic Freedom Score. This categorization simplifies the analysis by grouping countries with similar economic conditions, helping users quickly compare economic performance, identify patterns, and focus on regions needing policy improvements.</p>

		
5.	Dashboard design	<p>No of Visualizations / Graphs – 11</p> <ol style="list-style-type: none">2022 Economic Freedom ScoreTop 40 Ranking Countries In The IndexBottom Ranking Countries In The IndexIndex Score Based On Unemployment RateIndex Score Based On Financial FreedomIndex Score Based On PopulationIndex Score Based On 5 Year On GDP Growth Rate(%)Inflation Rate In Different CountriesCorrelation Between Inflation And UnemploymentCorrelation Between GDP(PPP) And Monetary Freedom20Top 40 Countries By GDP Growth Rate 

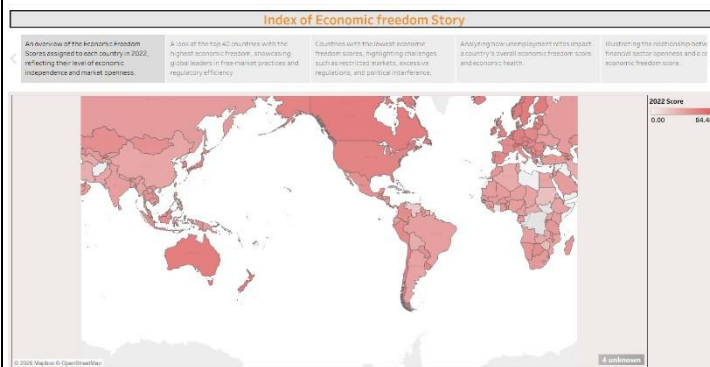


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Story Design

No of Visualizations / Graphs -11

The story presents a structured view of global economic freedom using interactive visualizations. It starts with overall scores, followed by top/bottom rankings and key economic indicators like GDP, inflation, and unemployment. The narrative helps users draw insights through comparisons and correlations across countries.



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