Project Development Phase
Model Performance Test

Date	10 February 2025
Team ID	LTVIP2025TMID47631
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom
Maximum Marks	

Model Performance Testing:

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

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	The index_of_economic_freedom.csv dataset has 184 rows and 32 columns, capturing key indicators that measure the economic prosperity of different countries. Ask ChatGPT
2.	Data Preprocessing	Dataset already included country names, we found the country ID redundant and removed it. Additionally, a null value was found in the FDI inflow column, which we replaced with 0 to maintain consistency in the data
3.	Utilization of Filters	**Filters:** 1.Region 2.country Name 3.Measure Names **Parameters:** 1.Top N 2.Goverment_Size parameter 3.Rule_of_law parameter 4.Regulatory Efficiency
4.	Calculation fields Used	**1. Government Size Score** ([Govt Spending] + [Tax Burden] + [Fiscal Health]) / 3 **2. Government_Size metric** IF [Government_Size parameter] = "Government Spending" THEN [Govt Spending] ELSEIF [Government_Size parameter] = "Tax Burden" THEN [Tax Burden] ELSEIF [Government_Size parameter] = "Fiscal Health" THEN [Fiscal Health] ELSE ([Govt Spending] + [Tax Burden] + [Fiscal Health]) / 3 END

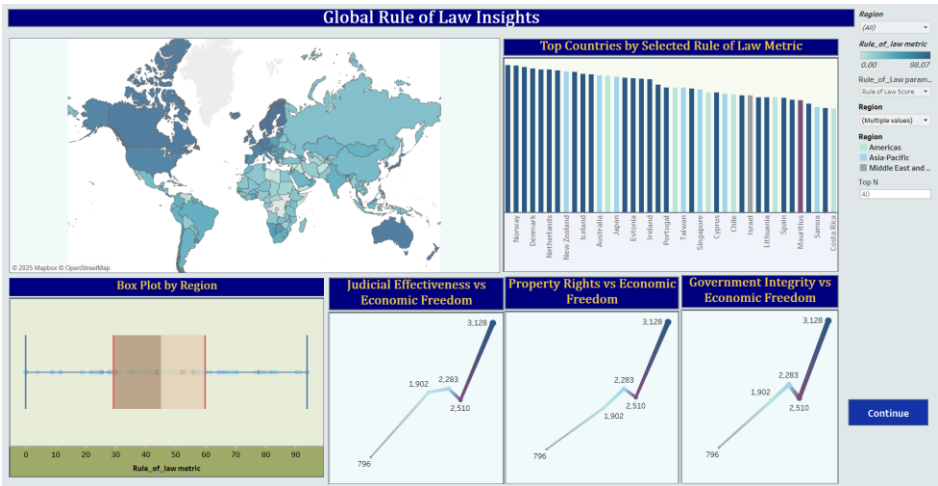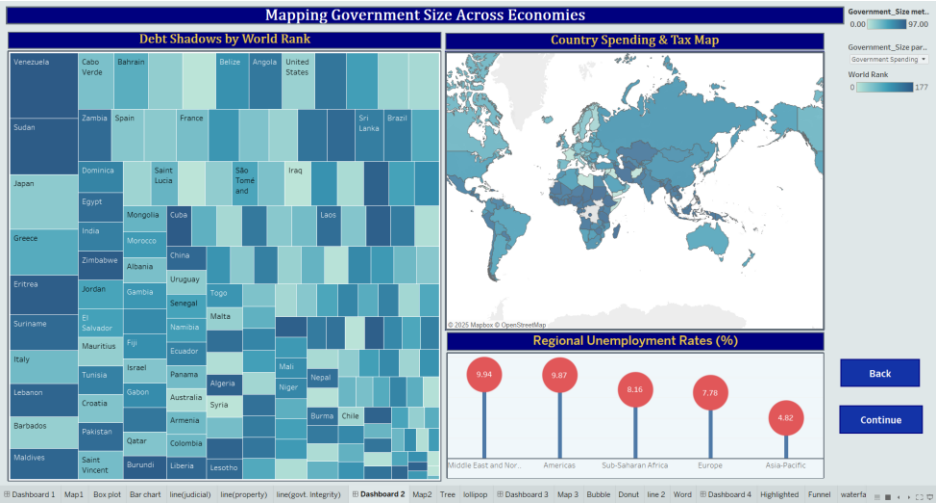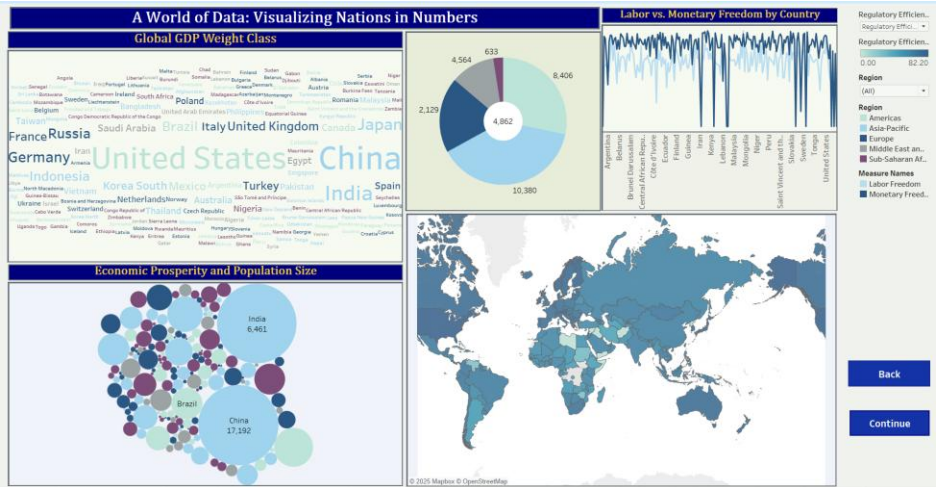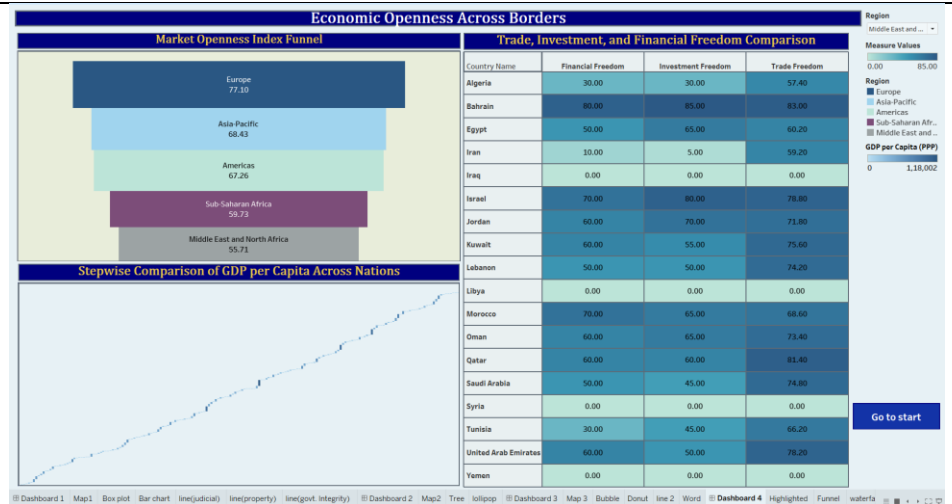|		

		3. Regulatory Efficiency Metric
		IF [Regulatory Efficiency Parameter] = "Business Freedom" THEN [Business Freedom]
		ELSEIF [Regulatory Efficiency Parameter] = "Labor Freedom" THEN [Labor Freedom]
		ELSEIF [Regulatory Efficiency Parameter] = "Monetary Freedom" THEN [Monetary Freedom]
		ELSE ([Business Freedom] + [Labor Freedom] + [Monetary Freedom]) / 3
		END
		
		4. Rule of Law score
		([Property Rights] + [Judical Effectiveness] + [Government Integrity]) / 3
		
		5. Rule_of_law metric
		CASE [Rule_of_Law parameter]
		   WHEN "Property Rights" THEN [Property Rights]
		   WHEN "Judicial Effectiveness" THEN [Judical Effectiveness]
		   WHEN "Government Integrity" THEN [Government Integrity]
		   WHEN "Rule of Law Score" THEN ([Property Rights] + [Judical Effectiveness] + [Government Integrity]) / 3
		END

5.	Dashboard design	No of Visualizations / Graphs – Dashboard 1:

Dashboard 2:

Dashboard 3:

Dashboard 4:

6	Story Design	No of Visualizations / Graphs –

Map chart 1:
A global view of Rule of Law based on Property Rights, Judicial Effectiveness, and Government Integrity

Map chart 2:
Overview of Government Size, highlighting spending levels, tax burden, and fiscal health across countries

Map Chart 3:
Illustrates Regulatory Efficiency through Business, Labor and Monetary Freedom scores across countries

Highlighted Table:
Open Market indicators, highlighting variations in trade, investment, and financial freedom across countries

Line chart:
Effect of Property rights, government integrity, judicial effectiveness on 2022 score

Bar chart
Finland leads in Rule of Law, with Europe dominating overall scores

Tree map:
Venezuela holds the highest public debt as a percentage of GDP globally

Word Chart:
The China leads the world with the highest GDP in billions in the year 2022

Bubble chart:
China and India top the world with the highest population figures

		Lollipop Chart: The Middle East and North Africa region leads with the highest average public debt levels **Donut chart:** Asia-Pacific leads in GDP and FDI inflow, while Sub-Saharan Africa records the lowest **Funnel chart:** Europe ranks highest in Trade Freedom, while the Middle East and North Africa score the lowest **Waterfall chart:** The waterfall chart illustrates the running total of GDP per capita across countries