

Model Performance Test: Power BI Inflation Analysis

Date:	09 March 2025
Team ID:	PNT2025TMID00093
Project Name:	Power BI Inflation Analysis: Journeying Through Global Economic Terrain

Date: [Insert Current Date]

Team ID: [Insert Team ID]

Project Name: Power BI Inflation Analysis: Journeying Through Global Economic Terrain

Maximum Marks: [Insert Max Marks]

1. Data Rendered

Tables Taken:

- Global Inflation Data Table:
 - Columns: 10
 - Rows: 1500
- Country Inflation Analysis Table:
 - Columns: 15
 - Rows: 800

2. Data Preprocessing

- Error Handling: Replaced missing or erroneous inflation rates with a default value (0 or mean).
- Data Types: Changed data types for columns like inflation rate, GDP growth, unemployment rate, etc., in both tables.
- Null Value Removal: Removed all null or empty rows that would affect the analysis.

3. Utilization of Data Filters

- Filters Used:
 - Top N: Top 5 countries by inflation in a clustered bar chart.

- Date Range: Filter for Yearly inflation rate trends.

4. DAX Queries Used

Here are some relevant DAX queries for inflation data analysis:

- Average_Inflation = AVERAGE('Global Inflation Data'[Inflation Rate])
- Total_Unemployment = SUM('Country Inflation Analysis'[Unemployment Rate])
- YoY_Inflation_Change = VAR PrevYear = CALCULATE(AVERAGE('Global Inflation Data'[Inflation Rate]), PREVIOUSYEAR('Global Inflation Data'[Year]))

RETURN AVERAGE('Global Inflation Data'[Inflation Rate]) - PrevYear

- GDP_Per_1000 = ([GDP] / 1000) * [Inflation Rate] * 1000

5. Dashboard Design

- Number of Visualizations / Graphs:
 - Card – Sum of Global GDP
 - Card – Average Global Inflation Rate
 - Line Chart – Top 5 Countries by Annual Inflation Rate
 - Clustered Bar Chart – Yearly Inflation Rate by Region
 - Map – Global Inflation Rates by Country
 - Slicer – Year and Country for deeper analysis.

6. Report Design

- Visualizations / Graphs:
 - Card – Sum of Global Inflation
 - Card – Average Unemployment Rate
 - Line Chart – Inflation Trends Over Time
 - Clustered Bar Chart – Inflation vs Unemployment Rate
 - Map – Country-wise Inflation Distribution
 - Slicer – Year and Country