

DATA ANALYTICS WITH POWER BI

Power BI Inflation analysis – Journey through the Global Economic Terrain

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Team Size	:	3
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Global Inflation Trends From 1980-2024:

This presentation analyses inflation trends across the top 30 global economies from 1980 to 2024. Understanding these trends is crucial for economists, financial analysts, and graduate students to predict future economic scenarios and make informed decisions. We will explore key indicators, regional variations, and factors driving inflation.

The analysis includes a focus on India's inflation rates and also compares global inflation averages across different years. Additionally, it highlights the countries with the highest inflation rates and examines inflation in struggling economies.

India's Inflation Rate: A Closer Look

1 Fiscal Year Analysis

Analysis of India's inflation rate based on the Indian fiscal year from 1980 to 2024. This analysis highlights the country's economic response to global events and internal policies. Key economic indicators are discussed in relation to inflation.

2 Economic Indicators

Specific events and their impact on India's inflation rates are pinpointed. These events include policy changes, agricultural seasons, and global market fluctuations. Understanding these connections is vital for predicting future trends.



Historical Comparison: 1980 vs. 2024 Inflation

1980 Inflation Average

The average global inflation rate in 1980 stood at 15.54%. This was influenced by factors such as the oil crisis, geopolitical tensions, and monetary policies of the time. Contextualizing this historical data provides a benchmark for current scenarios.

2024 Inflation Average

In contrast, the average global inflation rate in 2024 is 9.07%. Despite being lower than 1980, it still poses significant challenges for economies worldwide. This comparison sets the stage for analysing current economic responses.

Data Collection / Downloading the dataset

≡ kaggle

+

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Global Inflation Dataset

SAZIDUL ISLAM · UPDATED A YEAR AGO

72

Code

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Global Inflation Dataset

Annual Inflation Rate of 196 Countries (1980-2024)

Data Card

Code (11)

Discussion (1)

Suggestions (0)

About Dataset

Context

Understanding global economic dynamics, specifically the trends in inflation rates, is paramount for policymakers, economists, and researchers. This dataset, covering the years 1980 to 2024, offers a comprehensive perspective on inflation across various countries. The primary focus is on dissecting the data based on country-specific indicators, providing valuable insights into the multifaceted factors influencing economic environments on a global scale.

Content

The dataset comprises crucial columns including country name, indicator type, and annual average inflation rates from 1980 to 2024. This extensive collection of information facilitates detailed analysis and correlation studies, enabling researchers to uncover patterns and trends. By examining the nuanced relationships between country-specific indicators and inflation rates, valuable conclusions can be drawn about the complexities of global economic dynamics over the years. This dataset serves as a valuable resource for anyone seeking

Usability ⓘ

10.00

License

Other (specified in description)

Expected update frequency


Annually

Tags

Tabular

Data Analytics


Data Visualization

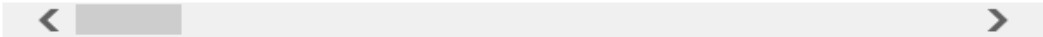


Raw Dataset

Preview downloaded on Saturday

Column1	Column2	Column3
COUNTRY NAME	INDICATOR NAME	1980
Afghanistan	Annual average inflation (consumer prices) rate	13.4
Albania	Annual average inflation (consumer prices) rate	null
Algeria	Annual average inflation (consumer prices) rate	9.7
Andorra	Annual average inflation (consumer prices) rate	null
Angola	Annual average inflation (consumer prices) rate	46.7
Antigua and Barbuda	Annual average inflation (consumer prices) rate	19
Argentina	Annual average inflation (consumer prices) rate	null
Armenia	Annual average inflation (consumer prices) rate	null
Aruba	Annual average inflation (consumer prices) rate	null

 The data in the preview has been truncated due to size limits.



Data Loading

Data Loading in Power BI involves importing data From various sources to create interactive reports and dashboards. Users can connect to a wide range of data sources, including dataset, excel files, cloud services, and more.

Extraction of Raw data downloaded from Kaggle																	
▲	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	country_name	indicator_name	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
2	Afghanistan	Annual average inflation (consumer prices) rate	13.4	22.2	18.2	15.9	20.4	8.7	-2.1	18.4	27.5	71.5	47.4	43.8	58.19	33.99	20.01
3	Albania	Annual average inflation (consumer prices) rate											-0.2	35.7	226	85	22.6
4	Algeria	Annual average inflation (consumer prices) rate	9.7	14.6	6.6	7.8	6.3	10.4	14	5.9	5.9	9.2	9.3	25.9	31.7	20.5	29
5	Andorra	Annual average inflation (consumer prices) rate															
6	Angola	Annual average inflation (consumer prices) rate	46.7	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	85.3	299.1	1379.5	949.8
7	Antigua and Barbuda	Annual average inflation (consumer prices) rate	19	11.5	4.2	2.3	3.8	1	0.5	3.6	6.8	4.4	6.6	4.5	3	3.1	6.5
8	Argentina	Annual average inflation (consumer prices) rate															
9	Armenia	Annual average inflation (consumer prices) rate														3731.8	5273.4
10	Aruba	Annual average inflation (consumer prices) rate								3.6	3.1	4	5.8	5.6	3.9	5.2	6.3
11	Australia	Annual average inflation (consumer prices) rate	10.1	9.5	11.4	10	4	6.7	9.1	8.5	7.3	7.6	7.2	3.3	1	1.8	1.9
12	Austria	Annual average inflation (consumer prices) rate	6.3	6.8	5.4	3.3	5.7	3.2	1.7	1.4	1.9	2.2	2.8	3.1	3.4	3.2	2.7
13	Azerbaijan	Annual average inflation (consumer prices) rate														1129.7	1664
14	Bahamas, The	Annual average inflation (consumer prices) rate	12.2	11	6.1	4	4	4.6	5.4	6	4.1	5.4	4.6	7.3	5.6	2.7	1.4
15	Bahrain	Annual average inflation (consumer prices) rate	3.8	11.4	8.7	3.2	0	-2.4	-2.5	-1.7	0.2	1.2	1.3	0.9	-0.3	2.6	4
16	Bangladesh	Annual average inflation (consumer prices) rate	7.7	14.9	13.7	11.1	10	10.4	10.3	10.5	10.2	9.2	9.7	9.3	5.9	3.3	4.6
17	Barbados	Annual average inflation (consumer prices) rate	18.5	14.6	10.3	5.3	4.6	4.9	0.2	3.6	4.7	6.3	3	6.3	6	1.2	0.7
18	Belarus	Annual average inflation (consumer prices) rate												83.5	970.3	1190.3	2220.9
19	Belgium	Annual average inflation (consumer prices) rate	6.7	7.6	8.7	7.7	6.3	4.9	1.3	1.6	1.2	3.1	3.5	3.2	2.3	2.5	2.4
20	Belize	Annual average inflation (consumer prices) rate	7.1	11.2	6.8	5	3.4	4.2	0.8	2	5.3	0	2	2.3	2.4	1.5	2.6
21	Benin	Annual average inflation (consumer prices) rate	9.6	0.8	4.1	-6.1	10.3	1.2	0.4	-1.3	3.4	-0.2	1.1	2.1	5.9	0.4	38.5
22	Bhutan	Annual average inflation (consumer prices) rate	12.5	5	9.9	12.1	13	8	5.2	7	8.2	8.9	9.4	10.3	8.1	9.6	9.5
23	Bolivia	Annual average inflation (consumer prices) rate	47.1	32.1	123.6	275.6	1281.3	11749.6	273.3	14.6	16	15.2	17.1	21.4	13	8.5	7.9
24	Bosnia and Herzegovina	Annual average inflation (consumer prices) rate															
25	Botswana	Annual average inflation (consumer prices) rate	12.1	16.3	11.2	10.5	8.6	8.1	10	9.8	8.4	11.6	11.4	12.6	16.5	14.4	10.6
26	Brazil	Annual average inflation (consumer prices) rate	90.2	101.7	100.6	135	192.1	226	147.1	228.3	629.1	1430.7	2947.7	432.8	952	1927.4	2075.8
27	Brunei Darussalam	Annual average inflation (consumer prices) rate			0	1.2	3.1	2.1	1.8	1.2	1.2	1.3	2.1	1.6	1.3	4.3	2.5
28	Bulgaria	Annual average inflation (consumer prices) rate	0	0	2.8	2.8	2.8	2.8	2.7	2.7	2.5	6.4	23.9	333.5	82	72.8	96
29	Burkina Faso	Annual average inflation (consumer prices) rate	12.3	7.6	12.1	8.3	4.8	7.1	-2.7	-2.9	4.2	-0.3	-0.8	2.5	-2	0.6	24.7
30	Burundi	Annual average inflation (consumer prices) rate	1.2	12.2	5.9	8.2	14.3	3.8	1.7	7.1	4.5	11.7	7	9	1.8	9.7	14.9

Raw Dataset after importing into Power BI

FileHomeTransformAdd ColumnViewToolsHelp

Close & Apply

New Source

Recent Sources

Enter Data

Data source settings

Manage Parameters

Refresh Preview

Properties

Advanced Editor

Manage

Choose Columns

Remove Columns

Keep Rows

Remove Rows

Sort

Split Column

Group By

Data Type: Text

Use First Row as Headers

Replace Values

Merge Queries

Append Queries

Combine Files

Text Analytics

Vision

Azure Machine Learning

Combine

AI Insights

Queries [1]

PROJECT DATASET

fx

= Table.TransformColumnTypes(#"PROJECT DATASET_Sheet",{{"Column1", type text}, {"Column2", type text}, {"Column3", type number},

	Column1	Column2	Column3	Column4	Column5	Column6
1	country_name	indicator_name	1980	1981	1982	
2	Afghanistan	Annual average inflation (consumer prices) rate	13.4	22.2	18.2	
3	Albania	Annual average inflation (consumer prices) rate	null	null	null	
4	Algeria	Annual average inflation (consumer prices) rate	9.7	14.6	6.6	
5	Andorra	Annual average inflation (consumer prices) rate	null	null	null	
6	Angola	Annual average inflation (consumer prices) rate	46.7	1.4	1.8	
7	Antigua and Barbuda	Annual average inflation (consumer prices) rate	19	11.5	4.2	
8	Argentina	Annual average inflation (consumer prices) rate	null	null	null	
9	Armenia	Annual average inflation (consumer prices) rate	null	null	null	
10	Aruba	Annual average inflation (consumer prices) rate	null	null	null	
11	Australia	Annual average inflation (consumer prices) rate	10.1	9.5	11.4	
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13	Azerbaijan	Annual average inflation (consumer prices) rate	null	null	null	
14	Bahamas, The	Annual average inflation (consumer prices) rate	12.2	11	6.1	
15	Bahrain	Annual average inflation (consumer prices) rate	3.8	11.4	8.7	
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17	Barbados	Annual average inflation (consumer prices) rate	18.5	14.6	10.3	
18	Belarus	Annual average inflation (consumer prices) rate	null	null	null	
19	Belgium	Annual average inflation (consumer prices) rate	6.7	7.6	8.7	
20	Belize	Annual average inflation (consumer prices) rate	7.1	11.2	6.8	
21	Benin	Annual average inflation (consumer prices) rate	9.6	0.8	4.1	
22	Bhutan	Annual average inflation (consumer prices) rate	12.5	5	9.9	
23	Bolivia	Annual average inflation (consumer prices) rate	47.1	32.1	123.6	
24	Bosnia and Herzegovina	Annual average inflation (consumer prices) rate	null	null	null	
25	Botswana	Annual average inflation (consumer prices) rate	12.1	16.3	11.2	
26	Brazil	Annual average inflation (consumer prices) rate	90.2	101.7	100.6	
27	Brunei Darussalam	Annual average inflation (consumer prices) rate	null	null	0	
28	Bulgaria	Annual average inflation (consumer prices) rate	0	0	2.8	
29	Burkina Faso	Annual average inflation (consumer prices) rate	12.3	7.6	12.1	
30						

Query Settings

PROPERTIES

Name

PROJECT DATASET

All Properties

APPLIED STEPS

Source

Navigation

Changed Type

47 COLUMNS, 197 ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 15:01

Cleaning and removing duplicates, errors in the dataset in Power BI

The image shows the Microsoft Power Query Editor interface. At the top, the title bar reads "Untitled - Power Query Editor". Below it is a ribbon with tabs: File, Home, Transform, Add Column, View, Tools, and Help. The ribbon contains various icons for data operations like "Close & Apply", "New Source", "Recent Sources", "Enter Data", "Data source settings", "Manage Parameters", "Refresh Preview", "Properties", "Advanced Editor", "Manage", "Choose Columns", "Remove Columns", "Keep Rows", "Remove Rows", "Sort", "Split Column", "Group By", "Data Type: Decimal Number", "Use First Row as Headers", "Replace Values", "Merge Queries", "Append Queries", "Combine Files", "Text Analytics", "Vision", and "Azure Machine Learning". Below the ribbon, the "Queries [1]" pane shows a "PROJECT DATASET" query. The main area displays a table with 30 rows and 6 columns. The columns are labeled "Column1", "Column2", "1.2 Column3", "1.2 Column4", "1.2 Column5", and "1.2 Column6". The data in the table includes country names and inflation rates. The right-hand pane shows "Query Settings" for the "PROJECT DATASET" query, with sections for "PROPERTIES" (Name: PROJECT DATASET) and "APPLIED STEPS" (Source, Navigation, Changed Type, Replaced Value). The status bar at the bottom indicates "47 COLUMNS, 197 ROWS" and "Column profiling based on top 1000 rows". The bottom right corner shows "PREVIEW DOWNLOADED AT 15:01".

Performance Testing :

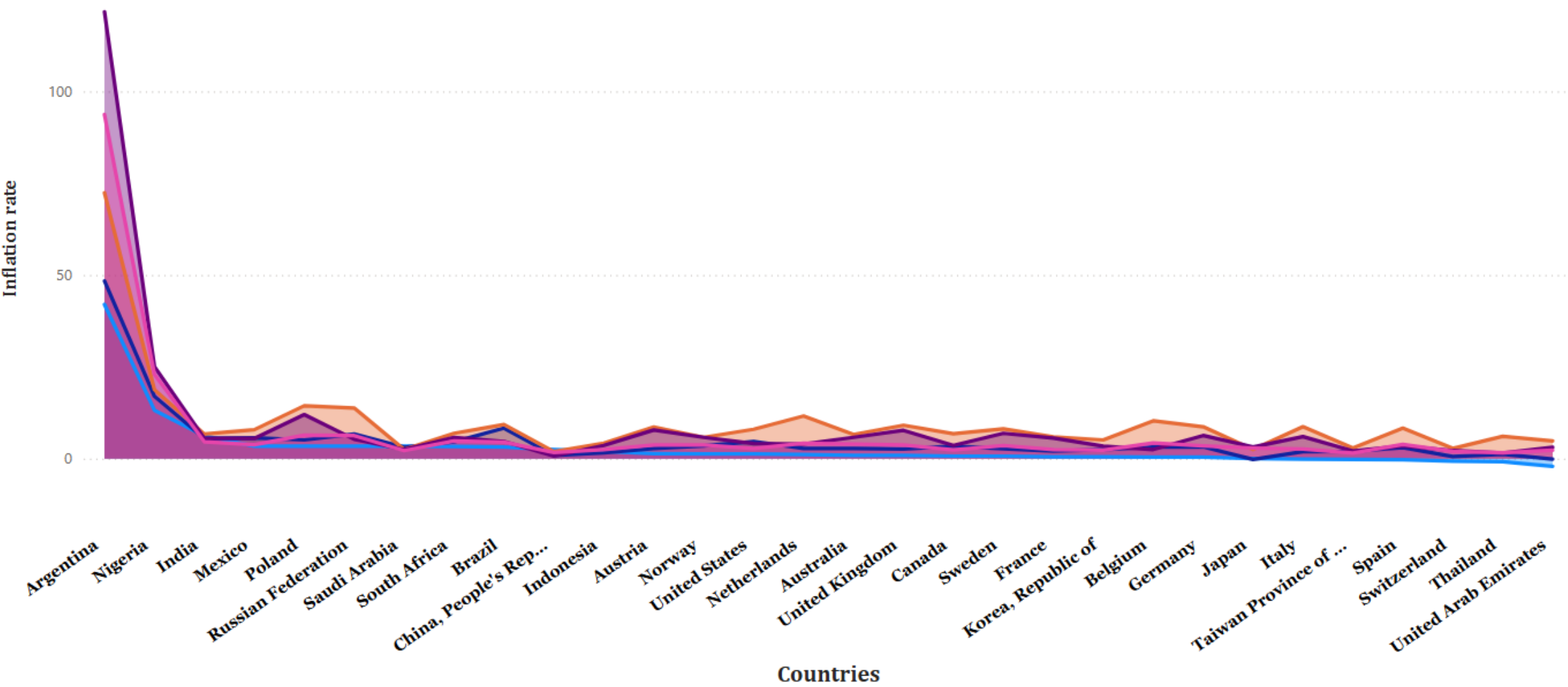
Number of Data Visualizations / graph :

- Average Inflation rate of top 30 global Economies from 2020-2024
- Inflation rate % of India according to Indian fiscal year 2020-2024
- Average of 1980 by country name / Average of 2024 by country name
- Top 5 countries with highest Inflation rate as of 2024
- Global average Inflation rate of Top 6 Economies since 1980
- Sum of Average of Top Global Economies from 2020-2024
- Inflation rate of Poor global Economies since 2020

Average Inflation Rate of Top 30 Global Economies 2020-2024

Inflation % (2020), Inflation % (2021), Inflation % (2022), Inflation % (2023) and Inflation % (2024) by Country Name

Inflation % (2020) Inflation % (2021) Inflation % (2022) Inflation % (2023) Inflation % (2024)



Inflation Overview: Top 30 Global Economies

Varying Inflation Rates

Inflation rates varied significantly across the top 30 global economies. Factors such as supply chain disruptions, fiscal policies, and global demand influenced these rates. Understanding these disparities is crucial for tailored economic strategies.

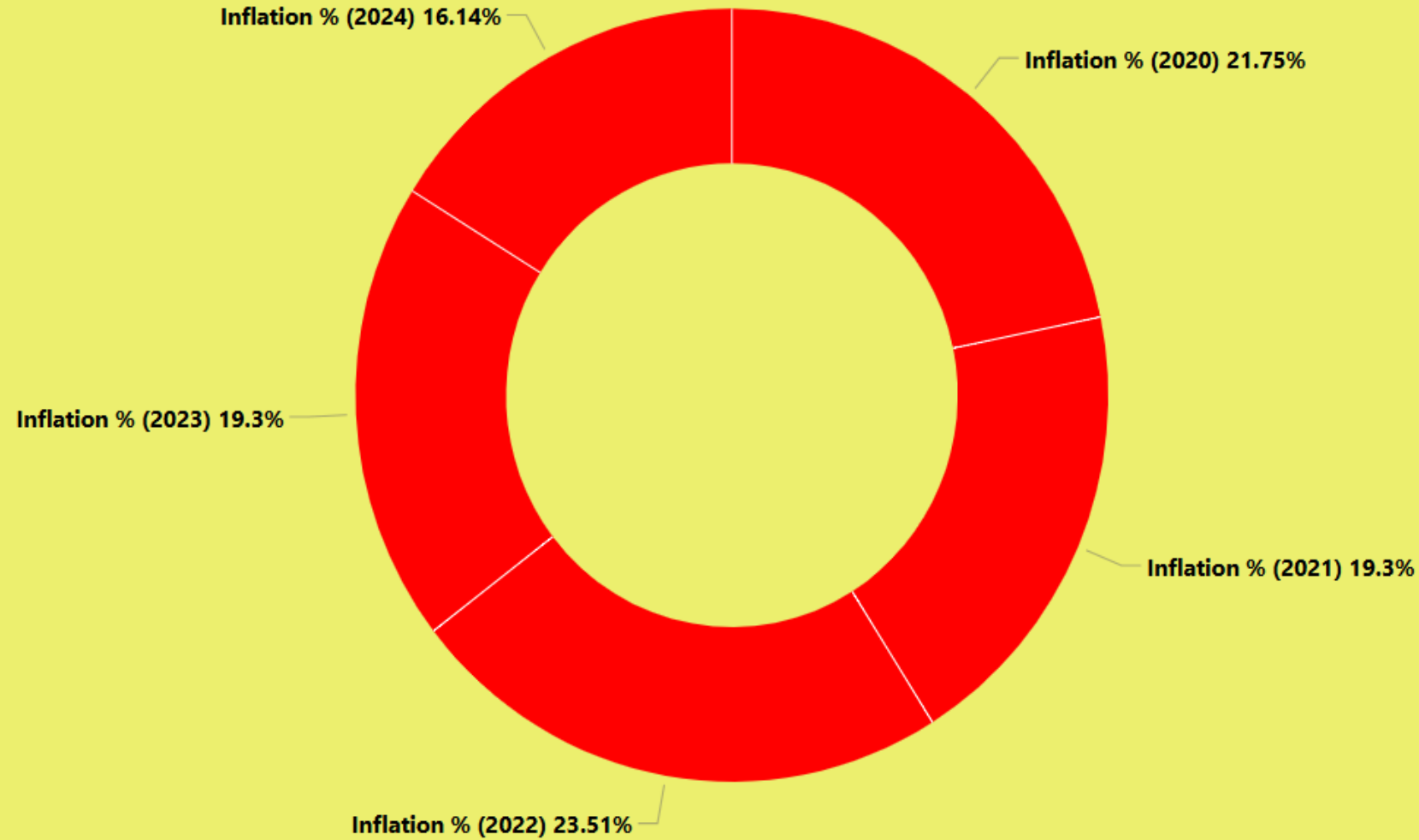
This section will delve into specific inflation figures for each country, identifying trends and outliers. Data from 1980 to 2024 will be compared to provide a comprehensive view.

Impact of Fiscal Policies

Fiscal policies adopted by different countries played a key role in shaping inflation. Expansionary policies aimed at stimulating growth often led to higher inflation rates, while contractionary measures aimed to curb it.

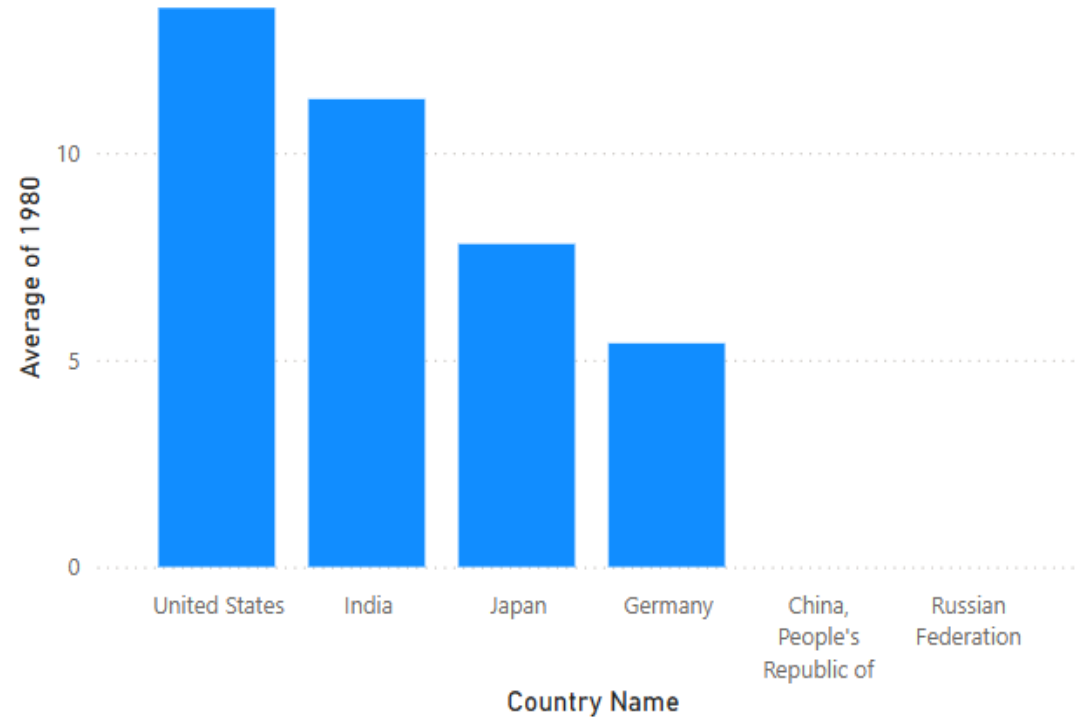
INFLATION RATE % OF INDIA ACCORDING TO INDIAN FISCAL YEAR 2020-2024

Inflation % (2020), Inflation % (2021), Inflation % (2022), Inflation % (2023) and Inflation % (2024) by Country Name



Akula Sasi vardhan

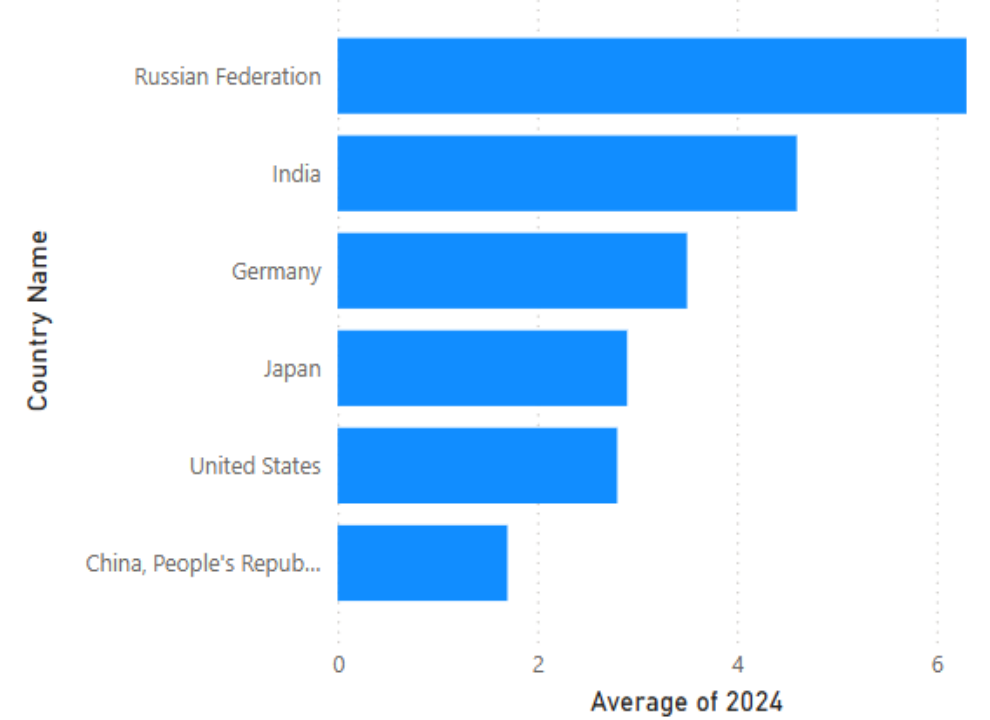
Average of 1980 by Country Name



15.54

Average of 1980

Average of 2024 by Country Name



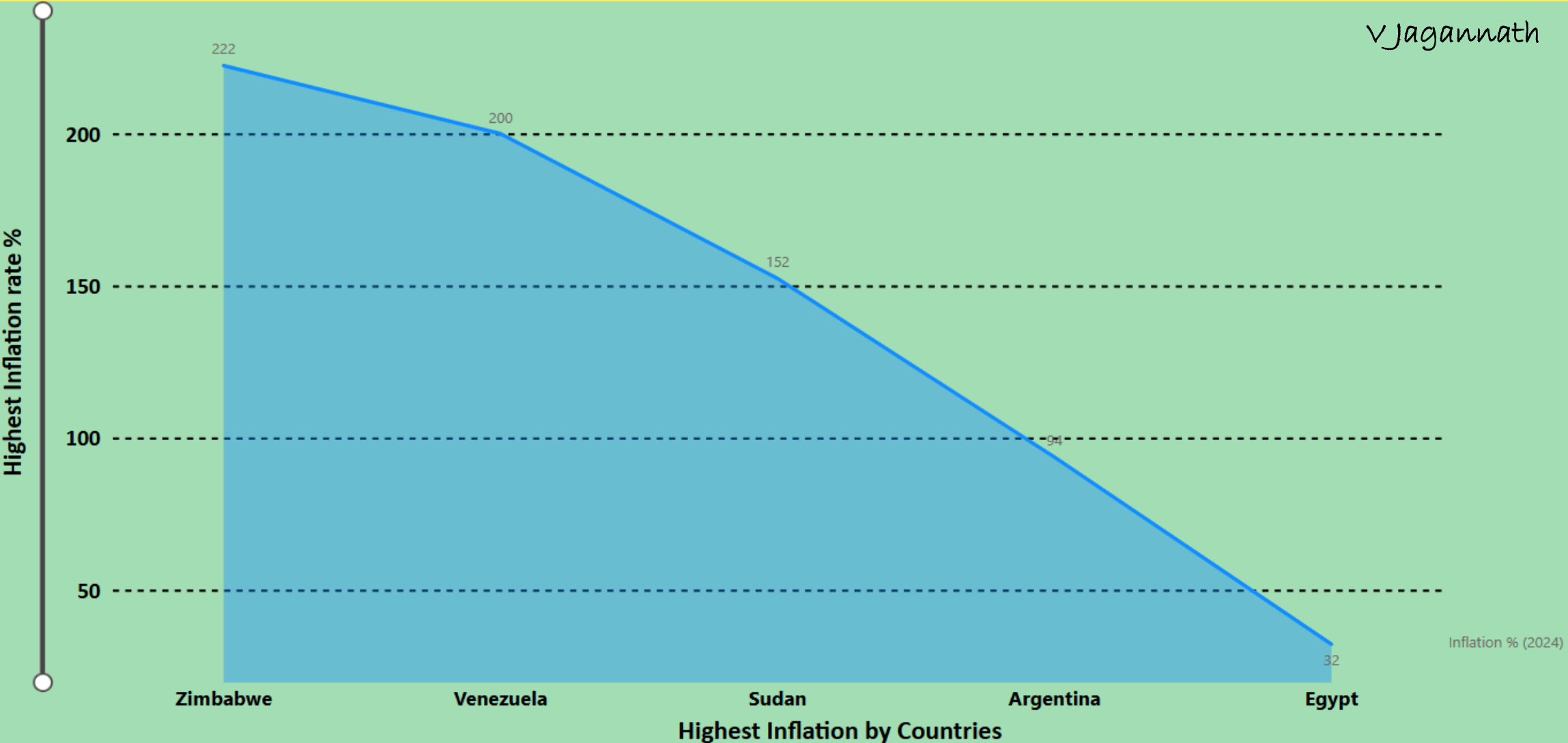
9.07

Average of 2024

Akula Sasi vardhan

Top 5 Countries With The Highest Inflation Rate as of 2024

Inflation % (2024) by Country Name



vJagannath

Inflation % (2024)

Top 5 Countries with Highest Inflation (2024)

Country	Inflation Rate (2024)
Venezuela	200%
Sudan	152%
Zimbabwe	222%
Argentina	94%
Egypt	32%

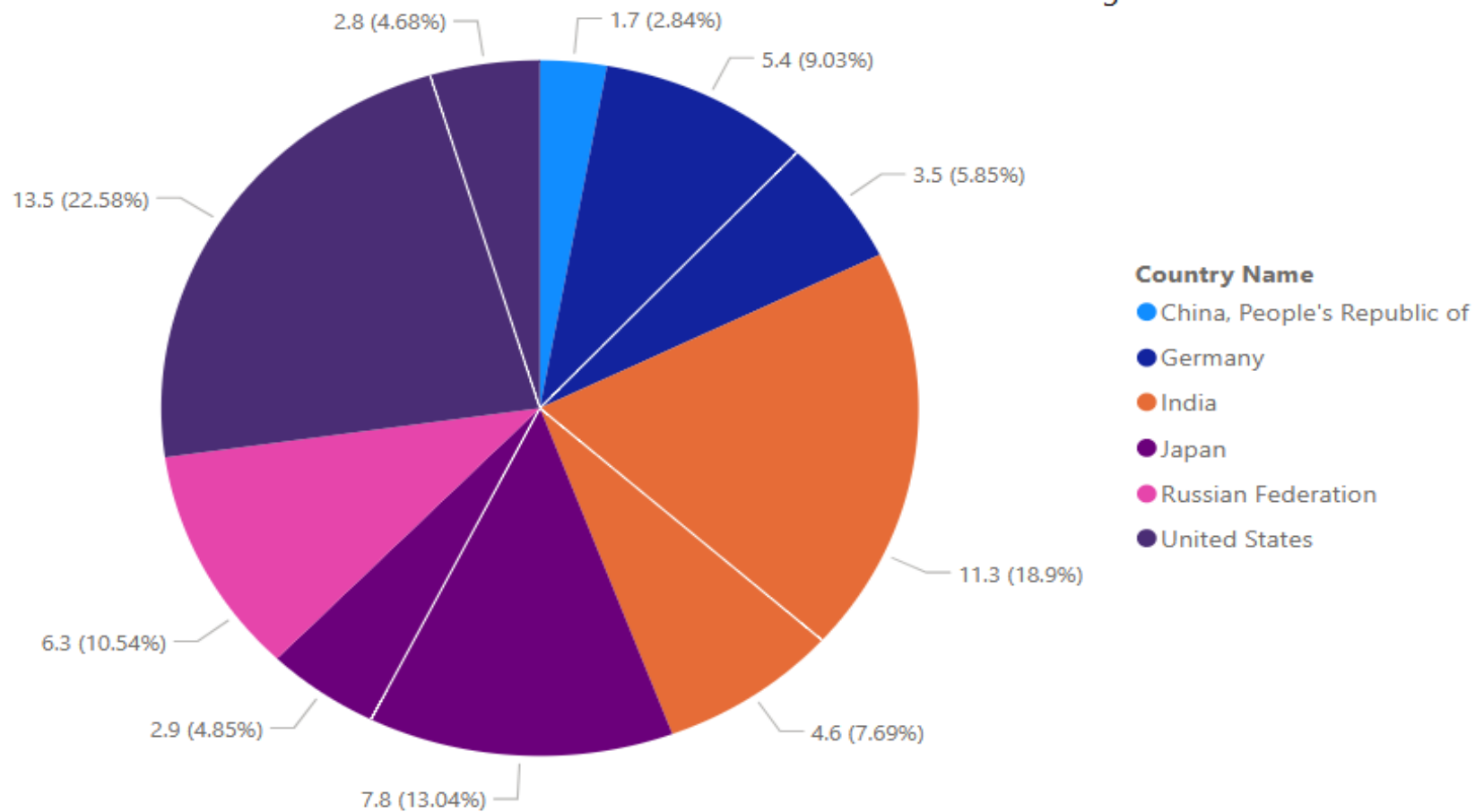
Venezuela leads with an alarming 200%, indicative of severe economic instability. Sudan follows with 152%, reflecting ongoing political and economic turmoil. Zimbabwe, Egypt and Argentina also face substantial inflationary pressures.

Average of 1980 and Average of 2024 by Country Name**15.54**

Average of 1980

9.07

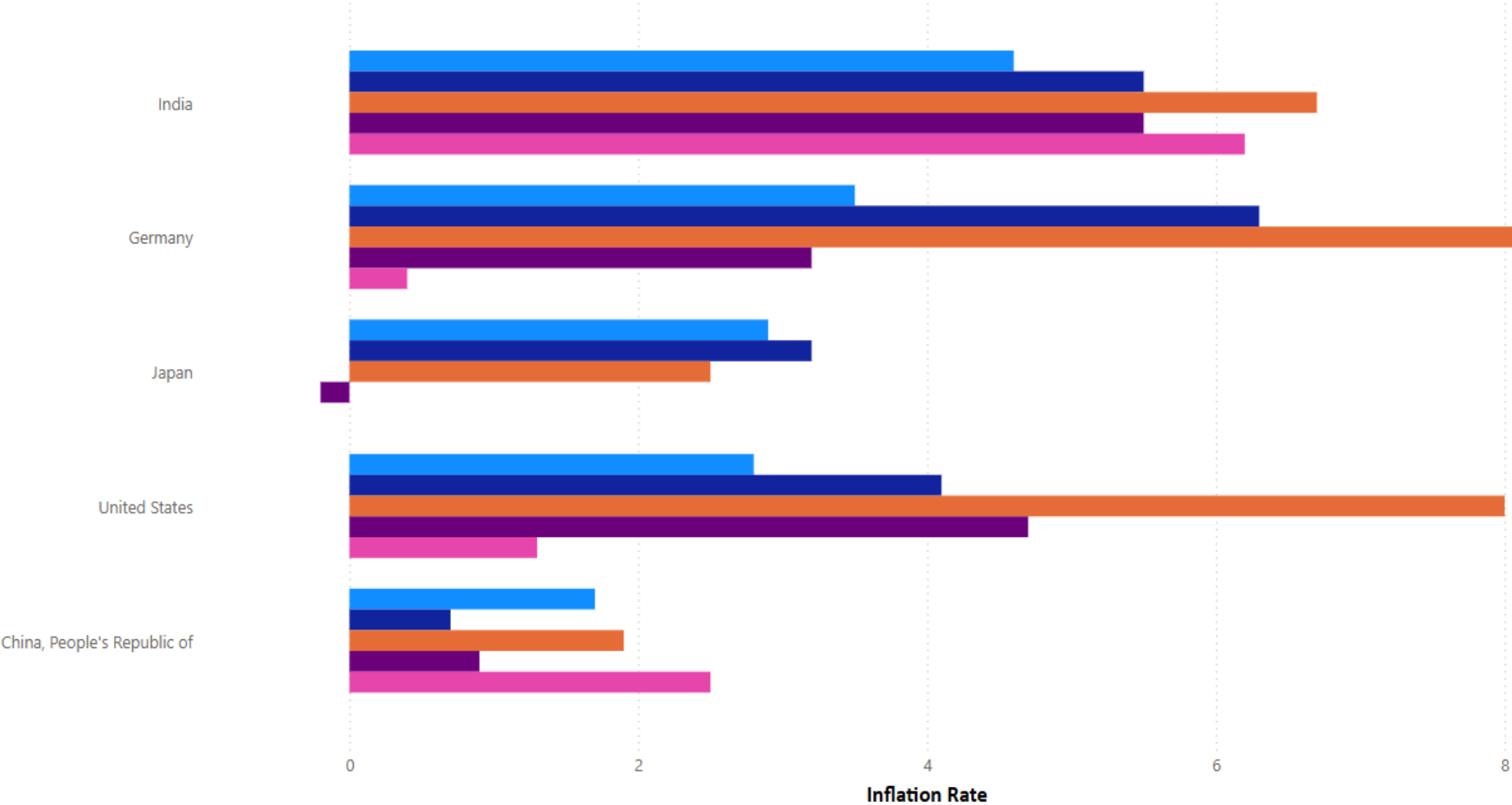
Average of 2024



Average of 2024, Sum of 2023, Sum of 2022, Sum of 2021 and Sum of 2020 by Country Name

Average of 2024 Sum of 2023 Sum of 2022 Sum of 2021 Sum of 2020

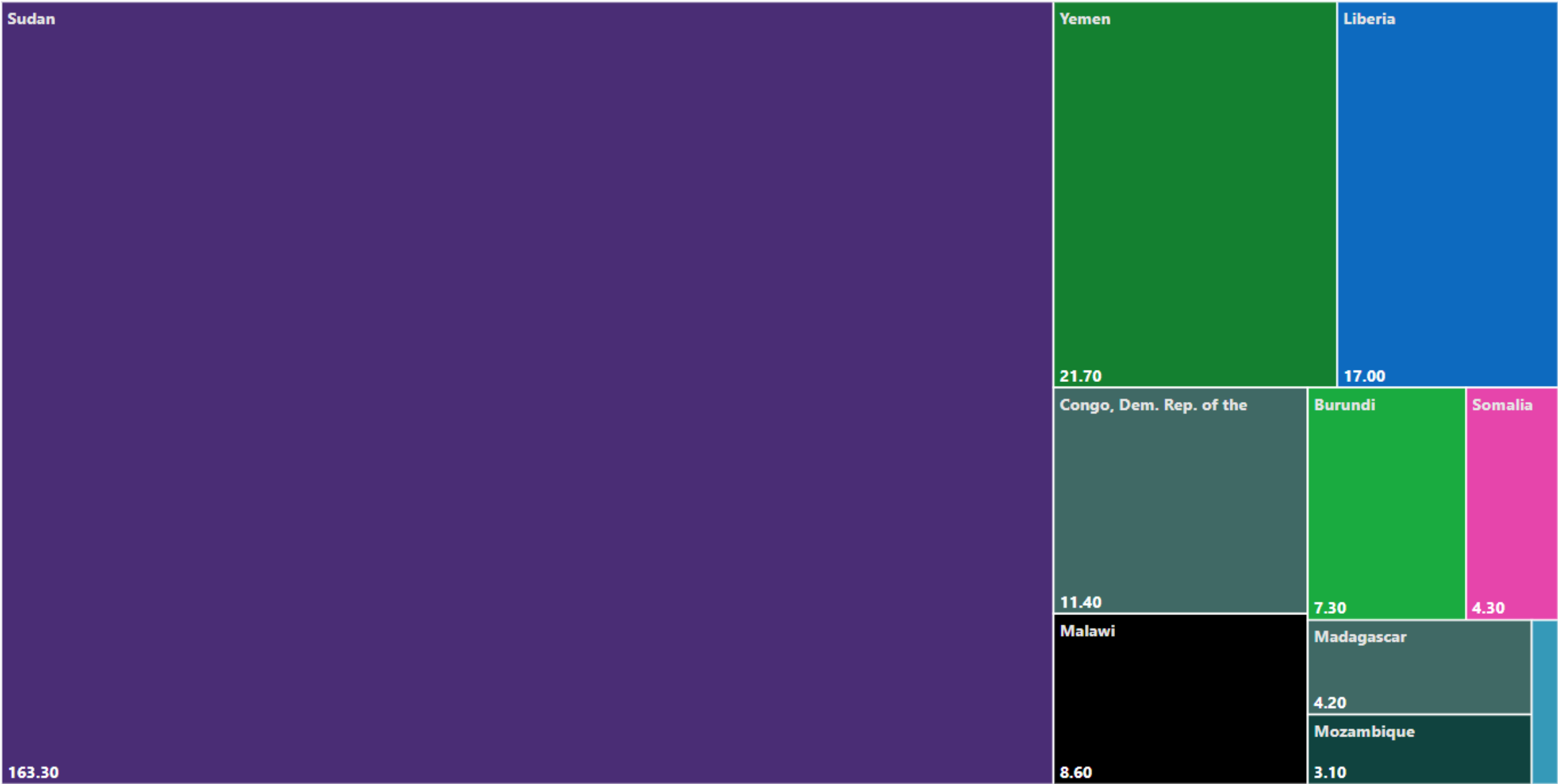
Top 5 Global Economies



INFLATION RATE OF POOR GLOBAL ECONOMIES SINCE 2020

Inflation % (2020), Inflation % (2021), Inflation % (2022), Inflation % (2023) and Inflation % (2024) by Country Name

S Pavan Siva Kumar



Inflation Rate of Poor Global Economies Since 2020

1

Sudan

Plagued by political instability and conflict, experienced hyperinflation, peaking at 163.30% in 2024.

2

Yemen

Ravaged by civil war, faced severe economic challenges with high inflation rates.

3

Liberia

Battling poverty and economic mismanagement, struggled with inflation.

Comparative Analysis: Key Inflation Metrics

9.07

Average (2024)

The average inflation rate across the top economies in 2024.

163.30

Highest (2024)

The highest inflation rate recorded for a specific economy in 2024.

15.54

Average (1980)

The average inflation rate across the top economies in 1980.

These metrics provide a snapshot of the inflationary landscape. Understanding these figures allows for a comparative analysis of current economic conditions versus historical benchmarks.

Drivers of Global Inflation: A Summary

Supply Chain Disruptions

Reduced supply and increased demand.



Fiscal Policies

Government spending and taxation.

Global Demand

Increased consumer spending.

Global inflation is influenced by multiple factors, including supply chain disruptions, fiscal policies, and fluctuating global demand. These factors interact to create an inflationary environment that requires careful economic management.

Key Takeaways and Next Steps

1 Understand Regional Variations

Inflation trends differ significantly across regions.

2 Monitor Key Economic Indicators

Track supply chain, fiscal policies, and global demand.

3 Prepare for Economic Adjustments

Implement strategies for inflation management.

In summary, understanding global inflation trends is crucial for informed economic decisions. By monitoring key indicators and preparing for economic adjustments, economists, financial analysts, and graduate students can navigate the inflationary landscape effectively.



: REPORT :

This report analyzes global inflation trends using interactive dashboards. It examines inflation rates across regions, key economic drivers, sectoral impacts, and policy responses. The study highlights historical trends, forecasts future inflation, and compares developed and developing economies. The insights help policymakers, businesses, and investors navigate inflationary challenges effectively.