

Project Initialization and Planning Phase

Date	01 October 2025	
Team ID	SWUID20250181698	
Project Title	Global Inflation Dynamics (1980-2024): A Comparative Time-Series Analysis	
Maximum Marks	3 Marks	

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, Includes data cleaning and transformation, Exploratory Data Analysis (EDA), visualization of global, regional, and country-level inflation trends, and development of an interactive dashboard.

Project Overview		
Objective	To analyze historical global inflation trends and provide data-driven comparative insights between developed and emerging economies.	
Scope	Includes data cleaning and transformation, Exploratory Data Analysis (EDA), visualization of global, regional, and country-level inflation trends, and development of an interactive dashboard.	
Problem Statement		
Description	The global inflation dataset is in a raw, wide format that is unsuitable for direct time-series analysis and contains noise (missing data, hyperinflation outliers), making macroeconomic comparisons difficult for decision-makers.	
Impact	Solving this provides a cleaned , reliable , and visualized data asset that enables quick, evidence-based policy and investment decisions regarding global economic stability and risk.	
Proposed Solution		
Approach	 Data Engineering: Use Power Query to Unpivot the data and filter for quality. Analysis: Define robust DAX Measures (Median Inflation) 	



	for accurate trend analysis. 3. 3. Dashboarding : Deliver a professional, interactive dashboard (Power BI).
Key Features	 Data Transformation Pipeline (M Language in Power Query). Comparative Time-Series Visualizations (G7 vs. BRICS). Hyperinflation Mitigation using the Median DAX Measure. Interactive Power BI Dashboard.

Resource Requirements

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	Standard Laptop/Desktop CPU (no GPU required)	Intel Core I5		
Memory	RAM specifications	8 GB		
Storage	Disk space for data, models, and logs	1 TB SSD		
Software				
Software	Core Tool	Power BI Desktop (Essential for transformation and visualization)		
Software	Data Transformation Language	Power Query (M Language) for Unpivoting and Cleaning		
Software	Data Analysis Language	DAX (Data Analysis Expressions) for creating measures/KPIs		
Data				
Data	Data	global_inflation_data.csv (Annual CPI Inflation, 1980- 2024)		