# **Project Design Phase Solution Architecture**

Date	04 March 2025
Team ID	PNT2025TMID03037
Project Name	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
Maximum Marks	4 Marks

# **Solution Architecture:**

# **Architecture Overview:**

The **Power BI Inflation Analysis** solution is designed to analyse global economic trends by integrating data from trusted sources like the **World Bank**, **IMF**, and **Trading Economics**. It enables users to visualize inflation trends, GDP growth, and other key economic indicators through interactive dashboards.

#### **Key Components of the Architecture:**

#### 1. Data Sources:

 Data imported from Excel, SQL Databases, and Web Data Connectors linked to real-time economic data.

# 2. Data Transformation & Cleaning:

 Cleaned data using Power Query to manage null values, remove outliers, and normalize inflation rates across regions.

#### 3. Data Modelling:

Built comprehensive data models utilizing DAX to calculate metrics such as YoY
Inflation %, Moving Averages, and Forecasted Trends.

#### 4. Dashboard Design:

 Developed visualizations such as Line Graphs, Heatmaps, and KPI Cards for quick insights.

# 5. User Interaction:

 Integrated interactive filters for Year, Country, and Economic Indicators to provide customized insights.

### 6. Deployment & Sharing:

 Deployed using Power BI Service for seamless access to stakeholders, ensuring insights are available across devices.

# **Example - Solution Architecture Diagram:**

