

Global Malnutrition Trends: A Power BI Analysis (1983-2019)

CHAPTER-2

Date	25-12-25
project name	Global Malnutrition Trends: A Power BI Analysis (1983-2019)

2.1. Define Problem Statement

Malnutrition remains a major global health issue, unevenly affecting countries across income levels. While low- and middle-income nations face high rates of under nutrition, high-income nations increasingly struggle with over nutrition and obesity. However, the lack of accessible, data-driven insights limits understanding of these long-term disparities.

Problem Statement:

To analyze and visualize global malnutrition trends from 1983 to 2019 using Power BI, identifying key disparities and patterns across countries and income classifications to support data-driven policy and intervention strategies.

Key Points:

- Need for clear visualization of undernutrition and overnutrition trends.
- Lack of integrated global data analysis tools for nutrition studies.
- Importance of data-driven insights for global health planning.
- Necessity to transform raw data into accessible, interactive dashboards.

Key Issues Identified

1. **Unequal Distribution:** Malnutrition affects countries differently depending on income levels and development status.
2. **Data Complexity:** Existing global datasets are difficult to interpret without effective visualization tools.

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3. **Limited Insight:** Lack of integrated analysis prevents a clear understanding of how malnutrition has evolved over time.
4. **Decision-Making Gap:** Policymakers often lack accessible tools to explore global nutrition data interactively.
5. **Need for Visualization:** There is a growing demand for user-friendly dashboards that communicate insights clearly and effectively.

Significance of the Problem

- Enables better understanding of global malnutrition distribution.
- Supports data-driven policy decisions and strategic health planning.
- Highlights countries and regions at greater nutritional risk.
- Encourages global collaboration toward achieving the UN Sustainable Development Goal 2 (Zero Hunger).