

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

## Data Collection and Preprocessing Phase

### 3.1 Data Collection Plan & Raw Data Sources Identification Report:

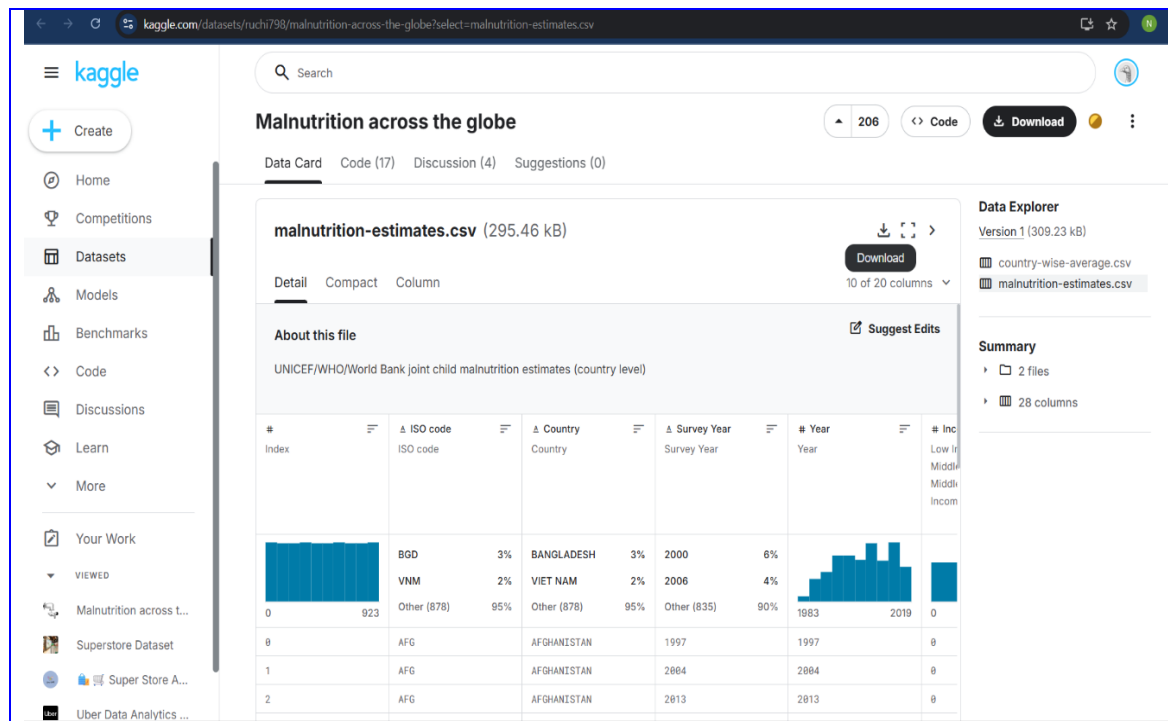
Data collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables one to answer stated research questions, test hypotheses, evaluate outcomes and generate insights from the data.

#### Data Sources:

The dataset on global malnutrition trends was also collected from **Kaggle**, a trusted open data platform widely used by data analysts and researchers. It was downloaded in **CSV format** and imported into **Power BI** for cleaning and visualization. This source was selected for its accessibility, comprehensive coverage, and ease of integration with analytical tools.

<https://www.kaggle.com/datasets/ruchi798/malnutrition-across-the-globe?select=malnutrition-estimates.csv>

<https://www.kaggle.com/datasets/ruchi798/malnutrition-across-the-globe?select=country-wise-average.csv>



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Section	Description
Data Collection Plan	The data was collected from reputable international health and development organizations. The main sources include global open datasets, statistical repositories, and WHO (World Health Organization) estimates. Data collection focused on ensuring reliability, validity, and consistency over multiple years for cross-country comparison.
Raw Data Sources Identified	<ol style="list-style-type: none"><li>1. World Health Organization (WHO) – Provides official estimates of malnutrition indicators like underweight, stunting, and wasting by country and year.</li><li>2. UNICEF Data Warehouse – Supplies complementary data on child nutrition, demographic segmentation, and regional breakdowns.</li><li>3. Internal Dataset: country-wise-average.csv – A derived dataset used to compute aggregated national averages for visualization and comparison.</li><li>4. Internal Dataset: malnutrition-estimates.csv – A cleaned dataset containing country-wise, year-wise malnutrition indicators used for Power BI analysis and modeling.</li></ol>