Icebreaker Project: *African Economic Indicators Data Explorer*

Context

Africa's economies are diverse, and access to reliable economic insights is key for governments, businesses, and NGOs. This project allows interns to practice **Python, Pandas, and visualization**, while uncovering trends in GDP, inflation, and employment across African countries.

Objectives

- Practice Python for data handling (Pandas, NumPy).

- Clean and preprocess messy real-world data.

- Create basic visualizations with Matplotlib/Seaborn.

- Tell a simple data story from African economic indicators.

Dataset (Possible Sources)

- World Bank Open Data (GDP, population, inflation, unemployment).

- African Development Bank stats.

- Or a curated CSV.

Features Example:

- Country

- Year

- GDP (USD)

- Inflation Rate (%)

- Unemployment Rate (%)

- Population (millions)

Tasks

1. Load and inspect dataset with Pandas.

2. Handle missing values (drop, fill, or interpolate).

3. Perform basic descriptive statistics (mean, median, min, max).

4. Visualize:

   o GDP growth over time for 3 countries.

   o Inflation trends compared across regions.

- Scatterplot of GDP vs Unemployment.

5. Create a **short "Insight Report"** (2–3 slides or notebook cells) summarizing findings.

Deliverables

- Jupyter Notebook with:

  - Cleaned dataset.

  - At least 3 clear visualizations.

  - Short analysis (bullet points).

- 5-minute presentation on "Economic Insights from African Data."