📊 Data Analyst Assessment Brief

Title: *Comprehensive Analytical Report on Nigeria's Economy: Performance & Way Forward*
Duration: 48 hours
Audience: Nigerian Economic Advisory Team

🔷 Introduction

At **Statisense Immortal**, we believe that data is only powerful when it tells a story, informs decisions, and inspires action.

You are tasked to analyze Nigeria's economy using the datasets provided and **any additional (credible & relevant) datasets you deem fit**.

Your report should:

✅ Be **comprehensive** — cover key economic performance indicators and relationships.
✅ Be **comparative and correlated** — compare sectors, find relationships between variables, and explain possible causes.
✅ Be **creative** — go beyond just numbers; tell a story.
✅ End with **recommendations** to the Nigerian Economic Advisory Team based on your findings.

🔷 Datasets Provided

You have three datasets already:

1. 📈 Historical GDP Data (2015–2024)

- By sectors and subsectors.

- Figures in millions of Naira.

- Metrics:

- ○ GDP contribution per sector/subsector.

- ○ GDP growth over time.

2. 🛒 Consumer Price Index (CPI) Data (2015–2024)

- By CPI components (Food, Transport, Health, etc.).

- Overall inflation and sector-specific price movements.

3. 🏢 Company Profit After Tax (PAT) Data (2015–2024)

- 7 companies, with PAT figures.

- Companies mapped to their respective GDP sectors (you will also confirm & explicitly link each company to its GDP sector).

🔷 Specific Tasks & Questions

Below are the required analyses you **must** include in your report. Feel free to include additional insights where valuable.

📊 Part 1: GDP Analysis

1. Calculate the **year-on-year GDP growth rate (YoY%)** for each sector and subsector for the last 10 years.
2. Identify the **top 5 sectors by growth rate** in 2024.
3. Identify the **top 5 sectors by contribution to GDP** in 2024.
4. Which sector performed best and least over the 10 years (by growth & contribution)?
5. If you were a member of the Economic Advisory Team, what recommendations would you make to improve underperforming sectors?

📊 Part 2: CPI & Inflation Analysis

1. Derive the **year-on-year inflation rate (%)** for each CPI component.

2. Over the last 10 years, identify **which sectors/components have experienced the highest costs of goods/services.**
3. What insights can you draw by comparing the CPI data with GDP growth & contributions?
4. Are rising prices hurting or helping certain sectors?
5. Are some sectors resilient despite inflation?

📊 Part 3: Company Performance & Sector Relationship

1. Determine the **annual growth rate of PAT** for each of the 7 organizations.
2. Map each company to its **respective GDP sector/subsector**.
3. Explore the **relationship between each company's PAT and the GDP of its sector**:
● Do their trends align? Why or why not?

● How does overall inflation and sector inflation affect their profitability?
  As an investor:

● Which industry and company would you invest in? Why?

● Consider growth, resilience to inflation, and GDP contribution.

🔷 Deliverable

Produce a **professional analytical report** (PDF or PowerPoint or any storytelling dashboard).
 Your report should follow these guidelines:

Structure:

● **Title page**

  ○ Title, your name, date, tools used.

● **Executive Summary**

  ○ Summarize key findings & recommendations in 3–5 bullet points.

● **Table of Contents**

- **Introduction**

    - Brief about the analysis & approach.

- **Main Sections**

    - GDP analysis (with charts & insights)

    - CPI & inflation analysis (with charts & insights)

    - Company–sector relationship (with charts & insights)

- **Final Recommendations**

    - Actionable advice to the Economic Team and investors.

Storytelling:

- Each insight or chart should answer a clear question.

- Narrate your findings as a **story/journey**, e.g.:

    - *"The Services sector, which contributed X% of GDP in 2022, showed a steady growth despite rising inflation. However, Manufacturing declined by Y%, which can be linked to rising energy costs…"*

- Use comparisons, highlight outliers, and explain **why** patterns exist.

Tools:

You may use **any analytics or visualization tool** of your choice, including but not limited to:

- Excel / Google Sheets

- Power BI

- Tableau

- Python (e.g., Pandas, Matplotlib, Seaborn)

- R

- Canva or Figma (for storytelling designs)

🔷 Submission Guidelines

- Format: PDF or shareable dashboard link.

- Deadline: **36 hours from receipt of this brief.**

- Naming convention: `YourName_NigeriaEconomicAssessment_2025.pdf`

- Submit to: the email that sent you the assessment

📋 Evaluation Criteria

Criterion	Weight
Analytical rigor & correctness	30%
Creativity in insights & storytelling	25%
Visual presentation & readability	20%
Practical & actionable recommendations	15%
Time management & completeness	10%

📌 Notes

- Feel free to include **external data sources** (properly cited) that strengthen your analysis.

- If you make assumptions, state them clearly.

- This is an opportunity to demonstrate your ability to turn raw data into actionable knowledge.

📌 DataSets

Link: Macro Data - NG.xlsx - Google Sheets

Example Questions You Might Answer:

- Why did the Information & Communication sector grow while others declined?

- How does inflation in "Imported Food" compare with Agriculture GDP?

- Why did Oil & Gas GDP shrink yet Seplat's PAT remained stable?

- Are there sectors/companies that seem resilient to Nigeria's inflationary environment?

🚀 Final Recommendation Section

Your report should close with:

- Recommendations for policymakers.

- Recommendations for investors.

- Suggested sectors for further investment & focus.

We look forward to seeing your creativity, analytical depth, and ability to tell a compelling data-driven story.

Good luck!