Tasks to Evaluate LLM and Agentic AI in CPG:

1. **LLM-Specific Tasks:**

• Customer Sentiment Analysis: Train an LLM on product reviews (from Amazon or Kaggle datasets) to classify positive, negative, and neutral sentiments.

• Product Matching & Categorization: Fine-tune an LLM to categorize new products based on descriptions (e.g., match "Diet Cola 500ml" with "Soft Drinks").

• Screening Engine: Develop a complete chatbot application that allows users to input text, such as "Candidate is a fresh graduate with experience in building AI products." The chatbot will then filter resumes and display the results in a user-friendly UI.
Tech Stack:

  Backend: FastAPI

  Frontend: Streamlit or any other suitable framework

  AI Processing: LangChain and an open-source foundational model

  Database: Store randomly generated or downloaded resumes

  The system should efficiently match candidate profiles to user queries and present relevant results.

2. **Agentic AI Tasks**:

• Automated Order Replenishment: Build an AI agent that dynamically adjusts inventory restocking based on demand trends and promotional campaigns.

• Price Optimization Agent: Train an AI model to recommend optimal product pricing based on competitor pricing, seasonality, and historical sales data.

• Supply Chain Chatbot: Create a conversational AI agent that answers distributor queries about stock availability, order status, and pricing changes