7. AI Engineer

Scenario: You are building a sentiment analysis system.

- Task 1: Scrape 200 sentences from any English news source.
- Task 2: Annotate these sentences based on their sentiments i.e. positive, neutral and negative.
- Task 3: Deploy the trained model as a REST API using Flask or FastAPI.
- Task 4: Optimize the model for inference speed by quantizing it or using a lighter architecture.
- Task 5: Implement A/B testing to compare the performance of the recommendation system against a baseline model.