Al Agent Developer — Technical Test (2-Hour Limit)

[™] Estimated Duration: 1.5–2 hours

Deliverables: GitHub repo or zipped folder with:

- Working code
- README with setup and brief explanation
- (Optional) Notes on what you'd improve with more time

PObjective:

Build a simple prototype that accepts a user question, retrieves relevant data, and uses a language model (LLM) to respond with a concise, context-aware answer.

Nequirements:

1. Input Interface

A simple CLI or script that accepts a natural language question.
 Example: "What's the property tax rate in Travis County?"

2. Basic Retrieval Logic

- Load a small sample dataset (you may use a CSV, JSON, or array of text objects).
- Implement basic retrieval, either:
 - o Keyword-based search, or
 - Vector similarity search using sentence-transformers or OpenAI embeddings.



3. LLM Integration

- Use an LLM (e.g., OpenAl API) to generate an answer using the retrieved context.
- Prompt the model using the format:
 "Answer the following question based only on the provided context."
 Context: [...]
 Question: [...]

Example Use Case:

Your script reads a dataset of local tax policies. The user asks a question. The agent retrieves the most relevant paragraph and generates a helpful, clear answer based on it.

☑ Bonus (Optional, Not Required):

- Add a second sample dataset to demonstrate multi-source retrieval.
- Add a follow-up mode for basic conversational memory.

Submission Instructions:

- Send your completed test via GitHub repo or zip file.
- Include a short README.md with:
 - Setup instructions
 - o A short summary of your approach
 - What you'd do next with more time

