

Healthcare Knowledge Assistant

Submission Packet – SLLM-AAI-MD Shaek Ahmed

This short packet pulls together the pieces I delivered for the Acme AI Sr. LLM / Backend Engineer exercise so reviewers have everything in one place.

Deliverables

- Source code: [GitHub repository](#).
- README: setup workflow and design notes in [README.md](#).
- GitHub Actions: CI workflow [ci.yml](#) and status page workflow [static.yml](#).
- Dockerfile: container build formula at [Dockerfile](#).

GitHub Actions

There are two workflows under `.github/workflows/`. The CI run installs Python dependencies, executes pytest, builds the Docker image, and pushes the newest tag to GitHub Container Registry. A follow-up workflow refreshes the GitHub Pages status report after a successful build so the published page always reflects the last run.

Dockerfile

- Base image: lightweight `python:3.13.9-slim`.
- Dependency install: upgrade pip and apply `requirements.txt`.
- App layout: copy the FastAPI package and bundled tests into `/app`.
- Runtime: expose port 8000, launch Uvicorn, and persist FAISS data under `/app/data`.

AI Usage Disclosure & Citations

The mock responses returned by `/generate` were drafted with help from OpenAI's ChatGPT and lightly edited to keep them instructional rather than clinical. README sections covering Docker-only setup were written with ChatGPT's assistance and tuned to match the final implementation. The GitHub Pages status page compiles CI/CD outputs and notes follow-up deployment work.

References & External Links

- CI workflow runs: [github.com/.../ci.yml](#)
- Pages workflow runs: [github.com/.../static.yml](#)