Lillian Owens

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My Key Qualifications

- **1 year of applied AI engineering** at Health Catalyst building NLP and LLM features in a regulated healthcare environment, plus ML and NLP coursework at UIC.
- Built **Python services and API integrations** connecting model outputs to production workflows, including a FastAPI service with PostgreSQL writebacks.
- **Prompt engineering and model evaluation** hands-on: lifted exact-match pass rate from 71% to 82% across 250 reviewed prompts, with runs logged in MLflow.
- **SQL and pandas dataset preparation** for model testing, cutting records flagged for missing fields from 47 to 9 per weekly batch.
- **RAG experience** via a clinical policy retrieval assistant built with LangChain, FAISS, and OpenAI; improved top-1 answer accuracy from 62% to 79%.
- **Core ML foundations**: trained and evaluated a scikit-learn classifier to 0.81 ROC-AUC on a holdout set for a clinic no-show prediction project.

Experience

Associate AI Engineer — **Health Catalyst**, healthcare data and analytics company serving health systems

May 2025 – Present · 1 yr 6 mos

- Built a FastAPI service that routed note-classification outputs into an internal review workflow, cutting manual handoff time from 18 minutes to 6 minutes per batch by creating the service endpoint, validation logic, and PostgreSQL writebacks under guidance from senior engineers.
- Set up a prompt and model test workflow for summarization experiments, improving exact-match pass rate from 71% to 82% across 250 reviewed prompts by comparing prompt variants, logging runs in MLflow, and documenting acceptance criteria with product and engineering partners.
- Prepared and cleaned evaluation datasets for a documentation-quality NLP feature with SQL queries and pandas checks, reducing records flagged for missing fields from 47 per weekly batch to 9 and surfacing data quality issues before model testing.

Education

- **University of Illinois Chicago** — Bachelor of Science in Computer Science · 2021 – 2025 · Relevant coursework: Machine Learning, Database Systems, Natural Language Processing, Software Engineering, Cloud Computing

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Projects

- **Clinical Policy Retrieval Assistant**
  Retrieval-based question-answering tool for a campus health office, helping staff search internal policy documents and draft grounded responses using LangChain, FAISS, and OpenAI. Improved top-1 answer accuracy from 62% to 79% on a 120-question evaluation set.
  Tech: Python, LangChain, FAISS, OpenAI
- **Scheduling No-Show Prediction**
  Classification model for a nonprofit clinic simulation project identifying appointments with higher no-show risk for staff outreach. Reached 0.81 ROC-AUC on the holdout set, built with scikit-learn, pandas, and SQL.
  Tech: Python, scikit-learn, pandas, SQL

Skills

- **Languages & Data:** Python, SQL, pandas
- **AI & ML:** NLP, Prompt Engineering, RAG, MLflow
- **Frameworks & APIs:** FastAPI