Yasser Ali

AI Engineer | Agentic Systems, Full Stack & ML.
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AI Engineer with a background in Applied Mathematics specializing in Agentic Workflows and RAG Systems. Proven track record of producing CFO-endorsed Data Science AI tools that reduce manual analysis time by 90%+ (from hours to <2 minutes). Portfolio at https://yasser.engineer

Work Experience

Data Scientist (Contract) — Kaiser Permanente — Jun 2024 - Oct 2025

- CFO-endorsed **Data Analyst AI and RAG Agent** adopted by Finance to upload data, query in natural language, and generate automated, evidence-based reports, reducing manual reporting work.
- System reduced time to analysis from **hours to <2 minutes**. Scaled to analyze 10+ Excel pages in real time, enabling Finance to cross-check against hospital operational data and identify cost-efficiency opportunities.
- Acted as the **Lead Engineer** for this high-priority initiative, driving full-stack delivery (Python/ML backend + UI) from concept to executive demo while managing weekly stakeholder reviews with Finance.
- Engineered a robust evaluation pipeline to stress-test the Agent against real-world financial queries. This automated testing **reduced hallucination rates by 60%+**, ensuring the system was reliable enough for production.
- Built high-performance Random Forest models to predict hospital bottlenecks, leveraging deep statistical learning foundations to set new internal accuracy benchmarks for resource allocation.

Projects

AI Medical Assistant — Oct 2025

- Engineered a **RAG-based patient portal** (Next.js, Python) that analyzes user symptoms and allows providers to instantly query medical records, significantly reducing chart review time. Live at https://www.aiscribe.cafe/

Atlas AI - Legal Intake Agent — Sep 2025

Engineered a **multi-agent legal platform** (FastAPI, Next.js) that automates intake via **RAG-based case analysis**, generating a weighted "Case Strength Score" (Based on Liability, Evidence and Damages) to prioritize high-value claims.

AI Research and Development

Independent Machine Learning Engineer — Sep 2023 - Jun 2024

- **Structured Independent Study:** Executed an intensive, self-directed curriculum to master the mathematical foundations of Machine and Deep Learning architectures.
- **Strategic Impact:** Used this deep study as the **algorithmic blueprint for the "Data Scientist AI Agent"** I later engineered, allowing me to codify complex decision-making into code.
- Applied these skills to **place 1st** in Kaiser Permanente's ML Competition (Cancerous X-ray Detection), securing my contract role.
- Taught high school mathematics while upskilling. Sharpened my ability to present complex topics in a simple way.

Skills

OpenAI Agents, RAG, Langchain | Scikit-learn, PyTorch, TensorFlow, Keras | SciPy, NumPy, SQL, Pandas |
AWS, Google Cloud, Postgres | Next.js, FastAPI, Python

Education

Applied Mathematics Graduate — University of California, Santa Barbara — Sep 2023