

# Abdi Dabala Yadata

✉ abdid.yadata@gmail.com ☎ +251921886991 🌐 abdi7d 🗺️ Adama, Ethiopia

## SUMMARY

Agentic AI Developer, Software Engineer, and Frontend Developer with comprehensive experience building AI-powered systems, LLM-driven applications, multi-agent workflows, and interactive web interfaces. Experienced in Python, AI orchestration, RAG pipelines, and modern frontend technologies (HTML, CSS, JavaScript). Proven ability to design and deploy scalable tools, integrate APIs, optimize data workflows, and deliver high-quality, end-to-end software solutions. Applies intelligent automation and open-source innovation to create user-centered products with measurable real-world impact.

## SKILLS

**Programming Languages:** Python, Java, C++, JavaScript | **AI | ML and Data Science:** Agentic AI Systems, RAG Pipelines, LLM Applications, Prompt Engineering, Data Preprocessing, Feature Engineering, Machine Learning | **Web Development:** HTML, CSS, JavaScript | **Tools:** Git/Github, Linux, VS Code | **Soft Skills:** Teamwork, Leadership, Communication, Solution Design, Creativity

## EDUCATION

### BSc in Software Engineering

Adama Science and Technology University

04/2025 – 05/2025

Adama, Ethiopia

Relevant Coursework: Data Structures & Algorithms, Database Systems, Data Communication & Computer Networks, Object Oriented Programming

### Data Science

CSE ASTU Club Data Science Bootcamp

04/2025 – 05/2025

Adama, Ethiopia

- Data Manipulation and Visualization
- Data Preprocessing and Feature Engineering
- Machine Learning and Advanced Modeling
- Feature Selection and Model Optimization

### Artificial Intelligence

Agentic AI Development — In Progress

LLM Engineering and Deployment — In Progress

01/2025 – Present

Adama, Ethiopia

## PROJECTS

### RAG Chatbot

- Engineered RAG chatbot integrating GPT-4 and Llama 2 with Chroma achieving 95% response accuracy, replacing manual knowledge retrieval.
- Implemented custom text embeddings, document chunking, search indexing, and semantic query routing, improving retrieval accuracy by **40%** and reducing response time by **25%**.
- Built and deployed a functional prototype that supports domain-specific knowledge retrieval across **5+ documents**, enabling users to obtain context-grounded answers in real time.

### Multi-Agent Automated Research & Report Generation

- Built a multi-agent system using LangGraph and Google GenAI to automate research and generate fully formatted PDF/DOCX reports.
- Integrated web search, summarization, and document generation tools with a Gradio UI for topic input and report download.
- Orchestrated end-to-end workflow, reducing manual research and report creation time by over 70%.

### Publication Assistant for AI Projects

- Built a **multi-agent AI system using LangGraph** to analyze GitHub repositories and automatically improve documentation, metadata, and project discoverability.
- Designed **five coordinated agents** (analysis, metadata generation, content improvement, review, fact-checking) orchestrated via a LangGraph StateGraph workflow.
- Integrated **tool-augmented agents** with repository parsing, web search, ChromaDB RAG retrieval, keyword extraction, and ArXiv claim verification.
- Developed **CLI and Gradio interfaces** to analyze local or remote repositories and generate structured improvement reports.

## EXTRACURRICULAR

### Competitive Programming

- Solved **125+ LeetCode problems**, improving algorithmic efficiency and coding skills.
- Solved **50+ Codeforces problems**, gaining experience in competitive coding under time constraints.
- Strengthened proficiency in **data structures, algorithms, and competitive coding strategies**.

01/2025 – Present

Adama, Ethiopia

## LANGUAGES

English — Proficient

Afan Oromo — Native/Bilingual

Amharic — Proficient