

Yonas Sintayehu Abebe

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EDUCATION

Computer Science and Engineering

Adama Science and Technology University (ASTU)

05/2022 – 06/2027 | Adama, Ethiopia

Competitive Programming and Coding Academy

Africa to Silicon Valley

07/2023 – 10/2024 | Adama, Ethiopia

- A2SV, a Google-backed tech academy, has placed **60+** high-potential students in top tech companies.
- Completed over **1,000** hours of Data Structures and Algorithms training and solved more than **1500** problems on **leetcode** and **codeforces**.

PROFESSIONAL EXPERIENCE

Head of Education Intern

Africa to Silicon Valley (A2SV)

01/2025 – present | Adama, Ethiopia

- Designed and delivered a comprehensive curriculum on advanced data structures and algorithms, mentoring and evaluating over 60 high-potential students.
- Curated and prepared high-quality problems for **15+** weekly contests by sourcing and adapting questions from various CP platforms.
- Recognized as the **best lecturer** among **8** educators for clarity of instruction and effective student engagement during the Education Phase.

AI/ML Engineering Trainee

IO Academy

05/2025 – 08/2025

- Engaged in an intensive 12-week AI mastery program focused on solving real-world business problems in fintech, healthcare, and e-commerce using end-to-end machine learning and data engineering.
- Architected and built 11 hands-on projects under weekly Agile sprint cycles, covering the full AI/ML lifecycle from data ingestion and warehousing to model deployment and Generative AI application.
- Developed solutions using modern stacks including **Generative AI (RAG, LLMs)**, **MLOps (Docker, MLflow, CI/CD)**, and **Data Engineering (dbt, Dagster, PostgreSQL)**.
- Operated in a highly collaborative environment, participating in daily stand-ups, peer code reviews, and presenting project outcomes to industry mentors and stakeholders.

Software Engineer Intern

Eskalate

08/2024 – 10/2024 | Adama, Ethiopia

- Collaborated effectively with a cross-functional team of **13** developers to build a blogging site project, achieving a **20%** reduction in project delivery time through effective utilization of **Agile methodologies**.
- Architected and developed a **RESTful API** using **Go** and the **Gin** framework, applying **Clean Architecture** principles to create a modular and highly maintainable codebase.
- Conducted rigorous code reviews, providing constructive feedback to improve code quality, maintainability, and adherence to best practices.
- Enhanced overall user experience by integrating an AI chatting system that uses **Google's Gemini LLM API**.
- Applied database indexing in **MongoDB** for fuzzy search, improving query efficiency by up to **30%**.

SKILLS

Languages: Python, Go, C++, SQL, JavaScript, Java | **AI / ML:** Scikit-learn, Pandas, Hugging Face, LangChain, PyTorch, NLP, Computer Vision (YOLOv8) | **MLOps / Data Engineering:** Docker, MLflow, dbt, Dagster, CI/CD (GitHub Actions), FastAPI, Pytest | **Databases:** PostgreSQL, MongoDB, MySQL, FAISS | **Web / Other:** Django, React, Gin, Git/GitHub, Linux

PROJECTS

RAG-Based Chatbot for Customer Complaint Analysis

06/2025 – 06/2025

- Architected a Retrieval-Augmented Generation (RAG) system using LangChain, creating vector embeddings with Sentence-Transformers and indexing them in a **FAISS** database for semantic search.
- Built a **Gradio** UI to display LLM-synthesized answers alongside retrieved source text, ensuring verifiability and user trust.

End-to-End AI/ML Credit Scoring Model

06/2025 – 07/2025

- Engineered a proxy target variable for credit risk by applying **RFM analysis** and **K-Means clustering**, enabling supervised model training on a dataset with no explicit default labels.
- Developed a complete training pipeline using **Scikit-learn** and **MLflow** to track experiments, tune hyperparameters, and version the final model, achieving a **ROC-AUC of 0.84**.
- Deployed the model as a containerized REST API using **FastAPI** and **Docker**, providing a scalable, production-ready service for risk predictions.
- Automated code quality by building a **CI/CD pipeline** with **GitHub Actions** that executes linting (flake8) and unit tests (**pytest**) on every commit.

End-to-End Data Platform for Medical Intelligence

07/2025 – 07/2025

- Architected a modern, containerized ELT data platform using **Docker**, scraping raw data and loading it into a **PostgreSQL** data warehouse.
- Implemented a dimensional star schema using **dbt** for the transformation layer, building modular and tested models to create a reliable single source of truth for analytics.
- Orchestrated the entire end-to-end workflow—from scraping to dbt transformations—using **Dagster**, creating a schedulable and monitorable production-ready data pipeline.

ACHIEVEMENTS

African and Arab Collegiate Programming Championship (ACPC) Finalist (2024)

06/2024

- Placed 4th out of 72 teams in the national contest (EtCPC), earning the honor of representing Ethiopia in the ACPC.

1st place, CSEC semester closing contest

06/2024

- Secured **1st** place with my team in the CSEC semester closing contest, a 5-hour coding competition among over **25** teams, where we successfully solved **8** out of **12** problems.

1st Place A2SVian of the Education phase, Africa to Silicon Valley

05/2024

- Recognized for outstanding attendance, remarkable contest performances and unwavering consistency for the 2024/2025 (ASTU) Education phase out of **45** students.