

GETACHEW GETU ENYEW

AI/ML Engineer | Application Software Developer

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Professional Summary

AI/ML Engineer with hands-on experience building and deploying production-grade machine learning systems using MLOps, cloud infrastructure, and scalable API-based architectures. Skilled in deep learning, NLP, LLMs, and real-time decisioning, with a strong foundation in software engineering and automation. Proven ability to turn prototypes into reliable, high-performing AI solutions that support business-critical applications.

Skills

- Programming: Python, JavaScript, Java, C++.
- Frameworks: Flask, React, MERN, Tailwind CSS.
- AI & ML: TensorFlow, PyTorch, Scikit-Learn, XGBoost, NLP, LLMs, RAG, Computer Vision, Hugging Face, Transformer, MCP server
- MLOps & Model Lifecycle: MLflow, Airflow, DVC, Model Registry, Automated Retraining • Explainability Tools (SHAP/LIME)
- Database: SQL, PostgreSQL, NoSQL
- Backend & Microservices: FastAPI, Flask, REST APIs, Model Serving APIs, Microservice Architecture, Containerization, Dependency Management
- Cloud & Infrastructure: AWS and DevOps: AWS (S3, EC2, Sagemaker, RDS, DynamoDB), Docker, Kubernetes, GitHub/GitLab, git, CI/CD
- Data Engineering & Real-time Systems: Apache Kafka, ETL/ELT Pipelines, Data Warehousing Data Preprocessing Pipelines • Batch & Real-time Inference

Work Experience

Information Network Security Administration

AI Engineer / Application Software Developer

April 2023 – Present / Full-time

Addis Ababa, Ethiopia

- Designed and deployed AI-powered cybersecurity systems (WAF & Antivirus), integrating ML models into production-grade pipelines.
- Built model inference APIs using FastAPI and Flask, enabling scalable and low-latency threat detection services.
- Developed automated CI/CD pipelines for model deployment, retraining, and versioning using Docker, GitHub Actions, and DVC.
- Developed data preprocessing and ingestion pipelines supporting real-time classification and monitoring.
- Collaborated with cross-functional teams to integrate models with backend and edge systems in secure environments.
- Implemented model monitoring frameworks to detect drift and update model versions reliably.

BITS College

Lecturer and Researcher

Sept 2024 – Present / Part time

Addis Ababa, Ethiopia

- Taught courses in AI, Computer Systems and Web Systems, fostering foundational skills in students.
- Developed and delivered engaging lecture materials, assignments, and examinations.

Moti Engineering Plc

Junior Software Support Engineer

Dec 2022 – April 2023 / Full-time

Addis Ababa, Ethiopia

- Built a Voice Guidance application with automated Text-to-Speech functionality, improving user experience and support efficiency.

- Troubleshoot customer systems, improving reliability and reducing support issues.

Projects

- Gasha WAF & Antivirus – Developed AI-powered systems for real-time threat detection and malware prevention using ML models and behavioral analysis.
- KcartBot – Multilingual RAG-based assistant providing product recommendations, supplier pricing insights, and intelligent support for agri-commerce users.
- Multi Agent Code Assistant – Built an LLM-powered assistant for multilingual code generation, debugging, analysis, and image-to-code conversion to boost developer productivity.
- Fraud Detection System – Implemented ML-based fraud detection for e-commerce and banking transactions to identify and prevent suspicious activities.
- RAG-Based Legal Document Assistant – Designed a Retrieval-Augmented Generation system for efficient legal research and intelligent document processing.

Education

10 Academy and Kifiya Financial Technology PLC

Aug 2024 – Nov 2024

Artificial Intelligence Mastery

Addis Ababa, Ethiopia

- Focused on Data Science, Machine Learning Workflow, Dashboard Development, Data Engineering, API development, version control, unit and functional testing and DevOps ([Link](#)).

Addis Ababa Science and Technology University

May 2021 – June 2024

Master of Science in Computer Engineering

Addis Ababa, Ethiopia

- *CGPA:* 3.75/4.0
- *Thesis:* Very Good
- *Courses Taken:* Machine Learning and Deep Learning, Image and Video Processing, High-Performance Computing, Parallel Computing, Distributed Systems, and Cybersecurity.

Addis Ababa Science and Technology University

Oct 2017 – June 2022

Bachelor of Science in Electrical and Computer Engineering

Addis Ababa, Ethiopia

- *CGPA:* 3.72/4.0
- *Course taken:* OOP (Python, Java), Database System, Data structure and Algorithm, Operating System. Advanced Programming, Computer Architecture and Organization.

Honors and awards

Awarded a scholarship for exceptional academic performance during undergraduate studies, enabling direct progression to the MSc fast track program.

License and Certifications

- Neural Networks and Deep learning: ([Link](#))
- Supervised Machine Learning: Regression and Classification ([Link](#))
- Introduction to Generative AI ([Link](#))
- Build Basic Generative Adversarial Networks (GANs)