Ruth Tamiru Aferahu

Software Engineer| AI Researcher

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Professional Experience

01/2025 – present Addis Ababa, Ethiopia	**Card Payment Switch Officer	National Payment Gateway** *EthSwitch*
09/2022 – 01/2025	**IT Technical Officer** *School of Tomorrow*

Education

2023 – present Addis Ababa, Ethiopia	**MSC in Artificial Intelligence** *Addis Ababa University*
2018 – 2022 Addis Ababa, Ethiopia	**BSC in Software Engineering** *Addis Ababa Science and Technology University*

Skills

Javascript (React, Next, Node, Express) | **TypeScript** | **Python** (Flask/FastAPI) | **HTML** | **CSS** (Tailwind CSS) | **MySQL** | **MongoDB** | **Deep Learning** (TensorFlow, PyTorch, Pandas, Sckit-learn, NumPy) | **Hugging Face Transformers** | **Git/Github** | **App deployment** (Heroku , Vercel) | **Robotics Simulation** (Gazebo)

Languages

- Amharic
- English
- Geez

Certificates

AI Career Essentials ⃡
I was able to learn the professional usages of AI in my career path

Python programming ⃡
I was able to understands basics of python and submit a project at the end of the course

Technovation Ethiopia ⃡
Our team submitted an MVP of Ethioinvest application which was a solution for the investment bureucracy in Ethiopia

Girls Can Code(GCC) ⃡
Initiated by the US Embassy this program introduce me to the basics of website development and basic life skills.

Hackathon ⃡
In She Codes Hackathon we were able to submit FEMA smart healthcare for Women

Projects

03/2025 – 03/2025   **Fema**
AI-powered platform that helps women easily screen for conditions like breast cancer, ovarian cancer, PCOS, endometriosis, and cervical cancer. Through simple assessments, users get personalized health insights, guidance from Doctor Fema (AI assistant), and recommendations for specialized doctors, making early detection and healthcare more accessible, affordable, and stigma-free.

03/2025 – 04/2025   **Land Resource Management System**
Smart web-based application developed to support efficient land utilization and data-driven decision-making.I was responsible for backend development and system integration, implementing RESTful APIs using Node.js and Express, and facilitating seamless data exchange between the frontend and backend. The system was built with TypeScript and React, and it supports real-time access to land data, allowing users to manage and submit records easily.

11/2024 – 12/2024   **Amharic Conversational Agent** ⧉
Natural language processing project developed to facilitate human-computer interaction in the Amharic language. Deployed on Hugging Face Spaces, the model is capable of understanding and generating responses to user input in Amharic, making it useful for applications such as customer support, digital assistants, and educational tools. The project leverages transformer-based language models fine-tuned on Amharic datasets. This project highlights my ability to work with low-resource languages and showcases practical NLP deployment on modern AI platforms.