

# FRANSI AYELE

## Computer Engineer

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## Summary

A Computer Engineer with a strong focus on software development, specializing in designing, building, and optimizing software systems and applications. Proficient in programming languages, software architecture, and algorithms, with experience in developing embedded systems, AI-driven applications, and network security solutions. Skilled in full-stack development, software debugging, and integrating software with hardware components for seamless performance.

## Work Experience

### Machine Learning Engineer

Aug 2023 - Sep 2023

Sync Intern | Mirzapur, IN

- Implemented Machine Learning algorithms, increasing data analysis speed by 60%, leading to faster actionable insights.
- Enhanced model performance by conducting data preprocessing (data cleaning, normalization, feature extraction), resulting in a 25% improvement in model accuracy.
- Developed and trained predictive models (classification, regression, clustering) using Python and TensorFlow, achieving a 40% boost in prediction accuracy

### Network Engineer

Jun 2023 - Sep 2023

Raras Technologies PLC | Addis Ababa, ETH

- Led the design and implementation of network infrastructure, achieving a 40% improvement in system efficiency through detailed Nexus requirements gathering, architecture development, and testing.
- Configured core network components (routing, switching, security, wireless), resulting in a robust and secure network foundation, supporting Raras' future growth and reducing downtime by 35%.
- Mastered Cisco switches, routers, and technologies like VLANs, VRRP, and OSPF routing, enhancing network stability and reducing error rates by 50%

## Projects

### Brain Tumor Detection System

Jan 2024

Developed a UNET-based system to detect and classify brain tumors with 98.6% accuracy using advanced machine learning techniques and image augmentation for enhanced model generalization.

### Plant Disease Detection System

Apr 2023

Created a CNN model using Amazon SageMaker to identify plant diseases with 94% accuracy, utilizing image preprocessing for robustness and offering real-time feedback for early intervention

## References

### Ashenafi Yadesa Gemechu (PHD)

Assistant Professor, Electrical and Computer Engineering Department, Addis Ababa Science and Technology University

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**Muleta Taye**

Advisor and Lecturer , Department of Software Engineering, Addis Ababa Science and Technology University  
Email: muleta.taye@aastu.edu.et

## Core Skills

**Programming** : Advanced algorithm and data structure design, Software Engineering, Software lifecycle, analytical & problem-solving skills, Networking, Data Science and AI/ML model fine tuning.

**Tech Stack** : Java, C++, Python, HTML, CSS, JavaScript, MATLAB, R, SQL, Linux/Windows OS, Bash/Shell and Gitlab, TensorFlow, PyTorch, Scikit Learn and more.

**Other skills** : Team collaboration, Creativity, Communication, Adaptability and Time Management

## Education

**Addis Ababa Science and Technology University**

Sep 2019 - Jun 2024

**Bachelor of Science** Electrical and Computer Engineering

## Languages

**English** (*Fluent*), **Amharic** (*Native*), **Afan oromo** (*Native*)

## Certificates

**Machine Learning**

Jul 2022

*Coursera*

**Generative AI with Large Language Models**

Nov 2023

*Coursera*

**Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate**

Apr 2024

*Oracle*

**Software Engineering Virtual Experience**

Jun 2023

*Forage*

## Interests

Photography, Traveling, Culinary Experiences, Historical Sites