

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 TechnologyUniversity
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