



Olana Kenea Lemesa

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ABOUT ME

I am a passionate **junior machine learning engineer** with a strong foundation in **enterprise IT systems, automation, and MLOps**. My expertise includes developing and deploying **machine learning models**, leveraging **cloud computing**, and automating workflows with tools like **Ansible** and **Kubernetes**. I'm driven by a keen interest in **AI-powered solutions, data analytics, and continuous learning**, currently diving deeper into **deep learning** and **natural language processing**. I thrive in dynamic environments where I can apply my technical skills to create impactful, scalable solutions.

WORK EXPERIENCE

IS officer- Server management

Commercial Bank of Ethiopia [30/12/2024 – Current]

City: Addis Ababa | Country: Ethiopia

- **VMware and IBM AIX Infrastructure Administration:** Managed and maintained VMware virtualization environments and IBM AIX server infrastructures, ensuring optimal performance, scalability, and high availability of critical banking systems.
- **Automation Solutions Development:** Designed and implemented automation solutions using **Ansible**, streamlining the management and deployment of key systems such as **core banking, ERP, and mobile banking applications**, significantly reducing manual effort and improving operational efficiency.
- **Performance Tuning and Optimization:** Conducted server and system performance tuning to enhance efficiency, ensuring systems met the demanding needs of banking operations.
- **High-Availability Configurations:** Implemented and managed failover configurations and clustering solutions to achieve **99.9% uptime** for mission-critical systems, ensuring business continuity.
- **Backup and Disaster Recovery Management:** Oversaw backup and restoration processes for servers and databases, establishing robust disaster recovery plans to mitigate data loss risks.
- **Collaboration with Cross-Functional Teams:** Worked closely with database, application, and network teams to deliver seamless services and ensure efficient integration of IT systems.

IS Graduate Trainee

Commercial Bank of Ethiopia [30/12/2023 – 29/12/2024]

City: Addis Ababa | Country: Ethiopia

- Managed and administered **VMware** and **IBM AIX** infrastructures, ensuring high availability and performance of key banking systems.
- Developed automation solutions using **Ansible** to manage critical systems like core banking, ERP, and mobile banking applications.
- Performed **performance tuning, backup management, and failover** configurations for high-availability systems.
- Took a yearlong classroom and on-the-job training as part of my graduate trainee program.

Junior system administrator

Ethiopian Electric Utility [17/10/2023 – 30/01/2024]

City: Addis Ababa | Country: Ethiopia

- **AIX Server Administration:** Managed and maintained AIX servers to ensure optimal performance and reliability, supporting critical business operations.
- **ERP System Support:** Provided technical support for SAP and Oracle databases, ensuring high availability, performance, and smooth operation of ERP systems.
- **IBM Virtualization Expertise:** Worked extensively with IBM Virtualization technologies such as **PowerVM, PowerHA, and HMC** (Hardware Management Console) to optimize server and system performance.
- **System Monitoring and Troubleshooting:** Monitored system performance and resolved server and database issues promptly to minimize downtime and enhance service delivery.

- **High-Availability Solutions:** Implemented and supported high-availability configurations using **PowerHA**, ensuring business continuity and system resilience.

Junior ICT Officer

Ethiopian Electric Utility [12/07/2019 – 16/10/2023]

City: Bonga | Country: Ethiopia

- **IT Infrastructure Management:** Oversaw the management and maintenance of IT infrastructure, including desktops, printers, and networking equipment, ensuring optimal performance and availability.
- **Technical Support:** Delivered technical support to resolve hardware and software issues, reducing system downtime and enhancing user productivity.
- **IT Security Implementation:** Enforced IT security protocols to safeguard systems against malware, data breaches, and unauthorized access, enhancing organizational security.
- **Collaboration for IT Performance:** Worked with cross-functional teams to improve system stability and overall IT performance, supporting business continuity.
- **User Account Management:** Managed user accounts, permissions, and network security, ensuring compliance with organizational policies and standards.

Energy Management and Automation Projects:

- Participated in **smart energy meter implementation projects**, contributing to the deployment of advanced metering infrastructure (AMI) in the Bonga District.
- **Training Delivery:** Conducted training sessions for technical staff and users on smart energy meter installation, operation, and troubleshooting, empowering teams with the knowledge to manage new systems effectively.
- **Deployment and Support:** Played a key role in the deployment and configuration of smart energy meters, ensuring smooth integration with the existing systems and addressing technical challenges.
- **Project Collaboration:** Worked closely with project teams to implement energy management solutions that enhanced operational efficiency and reduced energy wastage.

Database administrator

Bonga City Trade & Industry office [09/12/2018 – 10/06/2019]

City: Bonga | Country: Ethiopia

- Maintained and monitored databases to ensure data integrity, availability, and performance.
- Conducted **regular backups** and implemented **disaster recovery plans** to ensure data protection and quick recovery in case of failures.
- Set up and controlled user profiles and access levels to safeguard sensitive data.
- Optimized database performance by monitoring resource utilization and applying necessary configurations.

EDUCATION AND TRAINING

BSc in Information Science

University of Gondar [01/10/2015 – 07/07/2018]

City: Gondar | Country: Ethiopia | Website: www.uog.edu.et

MSc in Computer Networking

Jimma University [20/10/2019 – 12/01/2023]

City: Jimma | Country: Ethiopia | Website: www.ju.edu.et

LANGUAGE SKILLS

Mother tongue(s): Amharic

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Machine Learning, NLP / Machine Learning: Python, R / Python / Bash scripting / Jenkins, Maven, Git, Docker / DevOps Tools: Ansible, Kubernetes, Jenkins / CI&CD / GCP - Google Cloud Platform / VMWare VCF / AIX IBM / Linux (Server) / Networks: TCP/IP, LAN (Ethernet), Windows Server, Active Directory

PROJECTS

[01/01/2018 – 01/06/2018]

Undergraduate Graduation Project: Android-based student attendance system utilizing facial detection

- Created an Android application using **Android Studio** that integrates a user-friendly interface for teachers and students to manage attendance.
- implemented a facial detection algorithm using libraries **OpenCV**, enabling the application to accurately identify students in real-time.
- Designed a feature that automatically compiles attendance data into structured reports.

[02/01/2024 – 10/08/2024]

Research project: Machine learning-Based model for storage utilization : the case of commercial bank of Ethiopia

Led the development of a machine learning-based predictive model aimed at optimizing storage utilization for the Commercial Bank of Ethiopia, the largest bank in the country. The project involved analyzing large datasets to identify patterns in storage consumption, enabling more accurate forecasting of future storage needs. By applying machine learning algorithms, the model successfully provided insights that helped improve resource allocation, reduce waste, and enhance the overall efficiency of the bank's data storage management. This research not only sharpened my analytical and technical skills but also demonstrated the practical impact of data science in improving operational efficiencies in large-scale enterprise environments.

[04/05/2024 – Current]

Research Project: Automating AIX Server Provisioning and Management using Ansible (IaC)

- Developed and implemented Ansible playbooks to automate AIX server configurations, significantly reducing manual effort.
- Integrated **Ansible Tower** for centralized control and job scheduling, improving efficiency in server management.
- Overcame challenges of working in an offline environment by configuring dependencies and repositories manually.
- Technologies: **Ansible, YAML, AIX, IBM Power Systems, Podman, Linux (RHEL, Ubuntu).**

[22/02/2022 – 08/11/2022]

MSc Thesis: Social-Aware Buffer Management Algorithm for Delay-Tolerant Networks (DTNs)

- Developed an algorithm to optimize buffer management in Delay-Tolerant Networks (DTNs), which are characterized by intermittent connectivity and long delays.
- Incorporated social awareness into the algorithm to prioritize data transfer based on node behavior and social patterns, improving the efficiency and reliability of data delivery in resource-constrained environments.
- Conducted simulations and evaluations to demonstrate the algorithm's effectiveness in enhancing network performance, particularly in environments with unreliable connectivity, such as rural or remote areas.

CONFERENCES AND SEMINARS

[09/06/2018 – 10/06/2018] Gondar Ethiopia

28th Annual Community service & Technology Transfer Workshop & Exhibition

I had the honor of presenting my undergraduate project, "**Android-Based Student Attendance System Using Facial Detection,**" at the **28th Annual Community Service & Technology Transfer Workshop & Exhibition.** I showcased how the system leverages facial recognition technology for real-time, automated attendance tracking, addressing inefficiencies in traditional methods.

RECOMMENDATIONS

Name: **Assefa Chekole Addis** | Assistant Professor of Information Science
College of Informatics, University of Gondar, Ethiopia

E-Mail: assefa.chekole@uog.edu.et

Website: <https://coi.uog.edu.et/information-science-staff-profile/>

Google Scholar Profile: <https://scholar.google.co.za/citations?user=kWMlymAAAAJ&hl=en>

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Name: Alehegn Adane Kinde | Director, Library and Documentation Services

PhD Student @ City University of Hong Kong

Former Director, Library and Documentation Service

College of Informatics, University of Gondar

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