

# Fransi Mengesha

Addis Ababa, Ethiopia

+251-993656831

[francyaye@gmail.com](mailto:francyaye@gmail.com)

## Summary

- A Computer Engineer with experience in Machine Learning and deep learning, specializing in developing and deploying machine learning models .
- Proficient in programming languages such as Python, with hands-on experience in data manipulation, analysis, and model development.
- Expertise in machine learning libraries including TensorFlow, PyTorch, and scikit-learn with a focus on building scalable and accurate models.
- Implemented agile methodologies to streamline development cycles, prioritize tasks, and deliver high- quality solutions within tight timelines.
- Identified and addressed complex challenges using machine learning techniques, including brain tumor segmentation and classification, Plant Disease prediction, and natural language processing (NLP) tasks.
- Applied advanced statistical analysis and feature engineering techniques to extract meaningful insights from structured and unstructured data sources, improving model performance and interpretability.

## Skills

- **IDEs:** Vscode, JupyterNotebook, Spyder
- **Programming Languages:** Python and SQL
- **Machine Learning Libraries:** TensorFlow, PyTorch, scikit-learn, Keras
- **Data Processing Tools:** Pandas, NumPy
- **Deep Learning:** CNN (Resnet 50, Unet)
- **Data Visualization:** Matplotlib
- **Version Control:** GitHub
- **Cloud Platforms:** Oracle Cloud Infrastructure

## Work Experience

**Computer Network Design Intern, 06/2023 - 08/2023**

**Raras Technologies PLC** - Addis Ababa, Ethiopia

- Led a critical project to design and implement network infrastructure for Raras Technologies PLC, involving detailed requirements gathering, architecture development, and extensive testing.
- Configured core network components including routing, switching, security, and wireless systems.
- Demonstrated exceptional technical expertise in network design principles and protocols, quickly mastering Cisco nexus switches, routers, and technologies like VLANs, VRRP, and OSPF routing.
- Performed hands-on design, configuration, and troubleshooting tasks independently, proving capable of managing complex technical challenges.
- Delivered an infrastructure upgrade that serves as a robust foundation for Raras' future growth needs.
- Displayed a unique blend of networking knowledge, project execution poise, and collaborative nature, positioning himself strongly for a successful career in network engineering.

**Machine Learning Intern, 08/2023 - 09/2023**

**Sync Intern** - Mirzapur, Uttar Pradesh (Remote)

- Implemented machine learning algorithms and models to analyze large datasets and extract actionable insights.
- Conducted data preprocessing, including data cleaning, normalization, and feature extraction, to improve model performance.
- Developed and trained predictive models for various applications, including classification, regression, and clustering

tasks.

- Evaluated model performance using appropriate metrics and techniques, and iteratively refined models to achieve desired outcomes.
- Presented findings and recommendations to stakeholders in clear and concise reports and presentations.

### **Software Engineering Virtual Experience, 06/2023 - 07/2023**

#### ***JPMorgan Chase & Co* – USA (Remote)**

- Developed and integrated systems to interface with stock price data feeds, ensuring real-time data availability for analysis and decision-making.
- Leveraged JPMorgan Chase & Co. frameworks and tools to enhance system performance and ensure alignment with industry standards and practices.
- Designed and implemented visual displays to present stock price data effectively, enabling traders to make informed decisions quickly.
- Contributed to open-source projects related to financial data visualization or stock market analysis, fostering community collaboration and knowledge sharing.

### **Back-End Engineering Virtual Experience Program, 07/2023 - 08/2023**

#### ***Lyft* - USA (Remote)**

- Applied software architecture principles and best practices for code quality, performance optimization, and security measures.
- Conducted code reviews, provided constructive feedback, and mentored junior team members, emphasizing continuous improvement and refactoring.
- Practiced Agile methodologies, actively participating in sprint planning, daily stand-ups, and retrospectives to ensure timely delivery of features.
- Utilized unit testing and test-driven development to ensure code reliability and system robustness.
- Investigated and resolved production issues, ensuring system reliability and uptime.

## **Education and Training**

***Addis Ababa Science and Technology University* - Bachelor of Science in Electrical and Computer Engineering (2019-2024)**

## **Certifications**

- Oracle Certified AI Foundations Associate (Oracle)
- Generative AI with Large Language Models (Coursera)
- Machine Learning (Coursera)
- Machine Learning (Sync Intern)
- Data Science (Coursera)
- Software Engineering Virtual Experience (JPMorgan Chase & CO.)
- Back-End Engineering Virtual Experience (Lyft)
- Python Data Structure (Coursera)
- AI Career Essentials (ALX)