

Debela Desalegn Yadeta

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Profile Summary

I am a Data Scientist at Kifiya Financial Technology with a Master of Science in Artificial Intelligence from Addis Ababa University. My work focuses on building AI-powered credit scoring models to promote inclusive finance in underserved markets. I specialize in Explainable AI, Generative AI, and Large Language Models (LLMs), with a strong interest in developing transparent, scalable solutions for digital finance. At Kifiya, I apply cutting-edge research to real-world financial challenges, leveraging generative models and LLMs to build systems that are both impactful and responsible, advancing the company's mission of equitable financial access.

Work Experience

Data Scientist at Kifiya Financial Technology (2024-09-18 - 2030-07-26)

Location: Addis Ababa, Ethiopia

Responsibilities: My work at Kifiya spans from research to deployment of AI models in AgTech, FinTech, and credit scoring. I build and evaluate machine learning, deep learning, explainable AI, LLMs, and generative models using alternative financial and agricultural data. These models are designed to support smallholder farmers, improve credit accessibility, and drive inclusive digital finance. I contribute to both the innovation and practical integration of these technologies into Kifiya's platforms.

Data Scientist at Addisway Technology Solutions PLC (2022-07-10 - 2024-09-17)

Location: Addis Ababa, Ethiopia

Responsibilities: At Addisway, I develop machine learning and deep learning models for finance and healthcare applications. In finance, I work on credit scoring systems using alternative data, integrating explainable AI and generative models to ensure fairness and transparency. In healthcare, I apply AI to biomedical data for early risk detection and outcome prediction. My work bridges research and deployment, incorporating LLMs and generative techniques to deliver real-world impact.

Education

Master's Degree in Artificial Intelligence

Institution: Addis Ababa University | Dates: 2022-09-14 - 2030-07-26

Location: Addis Ababa, Ethiopia

Bachelor's Degree in Biomedical Engineering

Institution: Addis Ababa University | Dates: 2017-09-06 - 2022-07-06

Location: Addis Ababa, Ethiopia

Skills & Tools

Skills

Machine Learning (ML)

Deep Learning (DL)

Explainable AI (XAI)

Generative AI & Diffusion Models

Large Language Models (LLMs)

Credit Scoring & Financial Modeling

Biomedical Signal Processing

Data Analysis & Feature Engineering

Natural Language Processing (NLP)

Research & Technical Writing

Model Deployment & Integration

Low-resource Language Modeling

Tools & Technologies

Python (NumPy, pandas, scikit-learn)

PyTorch, TensorFlow, Keras

Hugging Face Transformers

SQL, PostgreSQL

Docker, Git, GitHub

Jupyter, VS Code

Google Colab, AWS

Power BI / Tableau (basic analytics/visualization)

Languages

Afaan Oromo, Amharic, and English

Awards & Certificates

AI for Global Health Innovation Challenge from Global South Artificial Intelligence for Pandemic and Epidemic Response

Description: Finalist