SAMRAWIT ALEMZEWD

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GitHub (AI & Data): https://github.com/SamriTech
GitHub (Software Dev): https://github.com/Samrawit426

PROFILE

Fourth-year Software Engineering student at Addis Ababa University with a strong focus on **Artificial Intelligence, Machine Learning, and Data Analytics**. **AI Stream Trainee at 10 Academy**, with hands-on experience building **end-to-end ML pipelines, performing exploratory data analysis, and developing applied AI solutions**. Active member of **AAU AI & Robotics Club** and **GDG Educational Team Mentor**, passionate about creating **ethical, explainable, and impactful AI solutions**.

EDUCATION

Bachelor of Science in Software Engineering — Addis Ababa University (AAU), Year 4
Expected Graduation: 2027

TECHNICAL SKILLS

Programming: Python, C++, JavaScript (basic)
Data & Analytics: Pandas, NumPy, Matplotlib, Jupyter Notebook
Machine Learning & AI: Supervised & unsupervised learning, feature engineering, model evaluation, NLP, sentiment analysis, time-series, recommender systems, reinforcement learning, explainable AI

MLOps & Tools: Git/GitHub, Docker, MLflow, FastAPI, CI/CD, SQL/PostgreSQL, TensorFlow, PyTorch

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SELECTED AI & DATA PROJECTS

AI Meeting Summarizer – Conversational Intelligence Tool (Live Demo)
Converts multi-speaker meeting audio into structured transcripts and summarizes action items.
Built with Python, NLP, Llama 3.3, AssemblyAI, Pandas, Plotly, Streamlit Cloud.
Includes participation analysis and sentiment-aware summaries; deployed via Streamlit Cloud.

Detection of Diabetes Using Supervised Machine Learning (Live Demo)
Predicts diabetes using supervised ML models from patient data.
Implemented with Python, Scikit-learn, and Streamlit.
Interactive Streamlit app for testing models and visualizing prediction results.

Credit Risk Probability Modeling Using Alternative Data (GitHub)
Builds a credit scoring framework using transactional e-commerce data.
Implemented with Python, MLflow, Docker, and FastAPI.
Includes proxy labels, feature engineering, and deployment-ready predictive model.

Predicting Stock Price Movements Using News Sentiment (GitHub)
Analyzes news headlines to predict stock price trends.
Built using Python, NLP, and time-series analysis techniques.
Performs sentiment scoring, moving averages, RSI, MACD, and Pearson correlation for insight.

Customer Experience Analytics for Fintech Mobile Apps (GitHub)
Analyzes app reviews to identify customer satisfaction drivers.
Used Python, NLP, and PostgreSQL for analysis and storage.
Provides actionable UX recommendations based on sentiment and thematic insights**.**

SOFTWARE & WEB DEVELOPMENT PROJECTS

Full-Stack E-Commerce Platform – Habeshawi Shop | MERN Stack (GitHub)
A scalable e-commerce web platform for managing products, orders, and payments.
Built using MongoDB, Express.js, React, Node.js (MERN) with Stripe integration and secure APIs.
Includes admin dashboard, version control, and production-ready deployment.

Academic Software Projects

- Developed multiple coursework-based projects with emphasis on **version control, modular design, and documentation best practices**

COMMUNITY & LEADERSHIP EXPERIENCE

Google Developer Group (GDG) – Educational Team Mentor

AAU AI & Robotics Club – Member

CERTIFICATIONS

- **Machine Learning Specialization – Andrew Ng (Coursera)**
    - Supervised & Unsupervised Learning, Recommender Systems, Reinforcement Learning, Advanced Algorithms