

Abenezer Tesfaye

Machine Learning Engineer

✉ tesfayeabenezer64@gmail.com 📞 +251920661950 🌐 abu14 📄 Abenezer Tesfaye 📍 A.A, Ethiopia

📌 SUMMARY

A **Data Science** professional with **4 years** of experience in data-driven solutions & deploying production-ready ML systems. Proven ability to translate complex data into actionable insights for organizations like **Komari Beverage** and **Beu Delivery**. Expertise in building and optimizing end-to-end **ML pipelines** and **ETL pipelines** using Python, TensorFlow & Oracle for **Safaricom Ethiopia**. Strong focus on model optimization and deployment. Experienced in developing real-time and high-performance data science solutions in production environments.

📁 PROFESSIONAL EXPERIENCE

Data Analytics Developer

08/23 – present | A.A, Ethiopia

Safaricom Ethiopia

- Designed and maintained ETL pipelines for large-scale customer data processing, reducing manual effort by 80% & data variance by 4%.
- Built an XGBoost-based predictive model to forecast customer inactivity (churn) using historical customer behaviour data. Achieved an **F1 score of 0.89**, enabling targeted reactivation campaigns and reducing churn by 5% MoM.

Sales Data Analyst

01/22 – 08/23 | AA, Ethiopia

Komari Beverages

- I conducted comprehensive sales and market analyses for 55 areas across Ethiopia, leveraging diverse data sources to make forecasts and KPIs that informed decision-making.
- Successfully revamped the process of the sales performance reports, beginning with the elds team up to senior management. Made use of analytical tools such as Google Sheets & Google Looker.

Data Analyst

03/21 – 12/22 | AA, Ethiopia

Beu Delivery

- Analyzed company's order fulfillment performance, including delivery time, order response time, and conversion rate, ultimately leading to 90% order completion.
- Helped in identifying fraudulent behaviors by delivery men, ultimately helping the company avoid losing large sums of money. Also developed and implemented key metrics to optimize delivery route selection, reduce response time, and shorten delivery time by 50%.

🎓 EDUCATION

Business Management

09/18 – 09/21 | AA, Ethiopia

Admas University

🧠 SKILLS

Libraries & Frameworks: Pandas, NumPy, XGBoost, ggplot2, Dplyr, TensorFlow, Scikit-learn & TidyR

Database: MySQL, Oracle SQL, NoSQL, Data Warehousing, ETL & Jobs

Visualizations: Tableau, Power BI, Google Looker & Google Sheets Dashboards, Steamlit

Data Analytics: Data Modelling, Statistical Analysis, Qualitative Analysis, Exploratory Analysis, Web Scraping

Deployment & Cloud: Docker, AWS, Azure

📁 PROJECTS

Climate Temperature Forecasting [🔗](#)

01/25 – 02/25

Time Series

- Utilized LSTM networks on the Jena Climate dataset (2009-2016) to predict temperature on 14 atmospheric variables recorded every 10 minutes, achieving an **MSE of 0.0653** and **RMSE of 0.2555**.
- Engineered lag, rolling, and cyclical features from a multi-variable climate dataset, powering a two-layer LSTM model to predict temperature trends with high accuracy.

Chat with Websites [🔗](#)

01/25 – 02/25

LLM

- A **web assistant** that extracts and tokenizes website content using **LangChain** and **BeautifulSoup**, enabling users to uncover insights through intelligent conversations with minimal latency.
- Built a retrieval-augmented generation (**RAG**) model using **LangChain** & **Hugging Face's Mistral-7B**, delivering contextual responses by integrating website data with a state of the art language model.

CERTIFICATES

IBM Machine Learning Professional Certificate [↗](#)

Practical machine learning concepts & skills, comparing algorithms like Convolutional Neural Networks, Recurrent Neural Networks, KNN, PCA, and feature engineering, and exploratory data analysis among many other topics.

Google Data Analytics Professional Certificate [↗](#)

Data Cleaning, Spreadsheets, SQL and R programming

Data Analytics Nano Degree

Data Wrangling, Web Scraping & Exploratory Data Analysis.