

Chala Bekabil Geta

Lecturer | Data Scientist | AI Researcher | Deep Learning Enthusiast

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Professional Summary

I am a passionate and forward-thinking Artificial Intelligence specialist with a strong academic and research background in Deep Learning, Natural Language Processing, and Machine Translation. With a Master's degree in Artificial Intelligence and a Bachelor's in Information Science, I have developed intelligent systems and conducted impactful research aimed at solving real-world problems. I bring a solid understanding of AI frameworks, data science tools, and web technologies, combined with a keen interest in education and mentorship. I'm excited to contribute to innovative AI and Data Science projects that foster academic growth and practical impact to the practical world.

Education

MSc in Artificial Intelligence | Addis Ababa University | Nov 2021 – Jul 2024

- CGPA: 3.82
- Thesis: Enhancing Neural Machine Translation Through Incorporation of Unsupervised Language Understanding and Generation Techniques: The case of English–Afaan Oromo Translation
- Thesis Result: Very Good

BSc in Information Science | Assosa University | Jan 2017 – Dec 2020

- CGPA: 3.99
- Project: Developing Institutional Repository System for Assosa University
- Honors: Gold Medal Award for Academic Excellence

Work Experience

Lecturer | Assosa University | Jul 2024 – Present

- Teaching AI-related courses and mentoring students in research and project development.
- Designing curricula and promoting practical learning in data structures and algorithms, data science and machine learning domains.

Assistant Lecturer | Assosa University | Feb 2023 – Jul 2024

- Delivered undergraduate courses in Information Science.
- Assisted students in final-year project design, development, and research methodology.

Graduate Assistant | Assosa University | Feb 2021 – Jan 2023

- Supported lab sessions and tutorials in Information Science.
- Participated in departmental research initiatives and student support activities.
- Participated on deployment of an Institutional Repository system for Assosa University.

Certifications

- Applied Data Science Lab – WorldQuant University, 2024
- Master Course in Web Frameworks – Udemy, 2023
- Machine Learning – Sololearn, 2022

Technical Skills

- Programming & Tools: Python, TensorFlow, PyTorch, SQL, Flask, Django
- AI & ML: Deep Learning, NLP, Machine Translation, Probabilistic Graphical Models
- Web Development: HTML, CSS, JavaScript, PHP
- Others: Research Writing, Version Control (Git), Model Evaluation

Research & Projects

Neural Machine Translation Improvement (MSc Thesis)

- Developed a hybrid model incorporating unsupervised language understanding and generation for low-resource English–Afaan Oromo translation.

Institutional Repository System (BSc Project)

- Designed and developed a web-based repository platform to store and manage academic materials at Assosa University (Currently in use).

Other practical Projects (WorldQuant applied Data Science Lab)

Badge: https://www.credly.com/badges/8b70169e-653c-417f-8481-6e4139f74bae/public_url

- **Housing in Mexico:** Using a dataset of 21,000 properties to determine if real estate prices are influenced more by property size or location. Importing and cleaning data from a CSV file, build data visualizations, and examine the relationship between two variables using correlation.
- **Apartment Sales in Buenos Aires:** Building a linear regression model to predict apartment prices in Argentina. Creating a data pipeline to impute missing values and encode categorical features, and improving model performance by reducing overfitting.
- **Air Quality in Nairobi:** Building an ARMA time-series model to predict particulate matter levels in Kenya. Extracting data from a MongoDB database using pymongo, and improve model performance through hyperparameter tuning.

- **Earthquake Damage in Nepal:** Building logistic regression and decision tree models to predict earthquake damage to buildings. Extracting data from a SQLite database, and reveal the biases in data that can lead to discrimination.
- **Bankruptcy in Poland:** Building random forest and gradient boosting models to predict whether a company will go bankrupt. Navigating the Linux command line, address imbalanced data through resampling, and considering the impact of performance metrics precision and recall.
- **Consumer Segmentation in the US:** Building a k-means model to cluster US consumers into groups. Using principal component analysis (PCA) for data visualization, and creating an interactive dashboard with Plotly Dash.
- **A/B Testing at WorldQuant University:** Conducting a chi-square test to determine if sending an email can increase program enrollment at WQU.
- **Volatility Forecasting in India:** Creating a GARCH time series model to predict asset volatility. Acquiring stock data through an API, clean and store it in a SQLite database, and building own API to serve model predictions.

Soft Skills

Communication | Team Collaboration | Problem-Solving | Critical Thinking | Time Management | Adaptability- Business Acumen & Financial Insight | Ethical Data Handling & Regulatory Awareness | Agile Collaboration with Cross-functional Teams | Strong Analytical and Storytelling Skills | Decision Support and Data-Driven Mindset

Interests

With a strong foundation in AI and machine learning, I am particularly interested in the application of data science in the financial sector. My academic research, combined with my other certifications and my practical experience in natural language processing and machine learning, has equipped me with the tools necessary to extract actionable insights from financial datasets, detect anomalies, and optimize predictive models for risk assessment and customer behavior.

Additional Technical Skills

- Financial Data Modeling and Analysis
- Time-Series Forecasting and Stock Trend Prediction
- Fraud Detection using Anomaly Detection Algorithms
- Credit Risk Scoring using Machine Learning and Deep Learning
- Python Libraries: NumPy, Pandas, Scikit-learn, XGBoost, Matplotlib, Seaborn
- SQL for Data Querying and Financial Database Management
- Deployment of ML Models via REST APIs and Cloud Platforms