GENERATIVE AI ENGINEER
EYAYA ENEYEW

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Address: Addis Ababa, Ethiopia

PROFESSIONAL SUMMARY

A Generative AI Engineer with 8 years of work experience. Strong mathematics background and skilled in training and fine-tuning LLMs, building RAG systems, prompt engineering and AI Chatbot development. Passionate about exploring the potential of Generative AI in NLP, Computer Vision and Content generation. Looking for a role in research and development where I can contribute to cutting-edge projects, collaborate with interdisciplinary teams, and continue pushing the boundaries of Generative AI technologies to create innovate solutions for real-wold challenges

SKILLS

Technical Skills
Prompt Engineering, RAG pipeline development, Local LLM setup, Transformer Models, Reinforcement Learning. Deep Learning, NLP, ML

Software Tools
Python, Vector Stores (Chroma, Pinecone, Fassi), SQL, LangChain, RAGAS, Stable Diffusion, OpenCV, Flask, React, React Native, Django.

WORK EXPERIENCE

GenAI Engineer(Senior Data Scientist), Kifiya Financial Technology, Addis Ababa, Ethiopia   Aug 2024 – Current
- AI Chatbot systems, Deep Search RAG systems, Agentic HR Automation, Agentic Credit Scoring, Agentic HR Engagement Survey analyzer, Agentic Exit Interview Automation. Conversational KYC.

Tutor, 10 Academy, Addis Ababa, Ethiopia   May 2024 – Aug 2024
- Tutoring and advising Kifiya AI and Cohere Trainees at 10 Academy.

Lecturer, Bahir Dar Institute of Technology, Bahir Dar, Ethiopia   Oct 2019 – Current
- Teaching undergraduate Mathematics courses and providing guidance for final year Senior essays
- Serving as a web administrator for the Post Graduate office at Bahir Dar University

Data Science Consultant, Economic Commission for Africa, Addis Ababa, Ethiopia   Nov 2021 – May 2022
- Automating the data collection processes across various sectors at UNECA.
- I was able to automate the data collection for 11 sectors Github.

Data Science Fellow, Economic Commission for Africa, Addis Ababa, Ethiopia   May 2021 – Aug 2021
- Automating the collection of economic data for the ECA's Price Watch Center for Africa
- I was able to automate the data collection from 25 countries which was 227% of the original 10-country target.
- Created a dashboard, CPI Data Scraper, to streamline the collection of CPI data Economic Monitoring in Africa.

Lecturer: Arba Minch University, Arba Minch, Ethiopia   Sep 2017 – Oct 2019
- eaching and supervising postgraduate and undergraduate students.
- I've supervised four MSc summer students in Numerical Analysis, with two achieving excellent and the other two very good in their dissertations.

Teaching Assistant, AIMS, Cape Town, South Africa   Aug 2016 – Jun 2017
- Conduct group and individual tutorials, continuously assessing student performance.
- Offer guidance and support to students throughout the process of writing their final project.

Teaching Assistant, Stellenbosh University, Stellenbosch, South Africa   Aug 2011 – Jun 2016
- eliver group and individual tutorials and continuously assessing the performance of Engineering students.

Lecturer, Arba Minch University, Arba Minch, Ethiopia   Sep 2007 – Aug 2009

- Instructing undergraduate Mathematics courses and providing guidance on final year essays.
- Serving as the Head of the Department of Mathematics for a period of six months

EDUCATION

PhD Candidate: CFD, Bahir Dar University, Bahir Dar, Ethiopia,   Sept 2020 – Current

- **Dissertation title:** Cattaneo-Christov Flux Model of Non-Newtonian Hybrid Nanofluids in Boundary Layer

Intensive Training: 10 Academy, California, USA   Nov 2023 – May 2024

- Specialized in Generative AI
- Acquired practical expertise in Generative AI, Machine Learning, Data Engineering and Web3 through weekly real-world projects

Master of Science: Numerical Analysis, Stellenbosch University, Stellenbosch, South Africa,   July 2010 – Dec 2011

- **Thesis Title:** Efficient Computation of Shifted Linear Systems of Equations With Application to PDEs.
- **Qualification Awarded with: Distinction.**

Postgraduate Diploma: Mathematical Sciences, AIMS, Cape Town, South Africa   Aug 2009 – Jun 2010

- **Thesis Title:** Computation of the Matrix Exponential with Application to Linear Parabolic PDEs
- **Relevant Courses:** Functional Programming, Monte Carlo Statistical Methods, Computer Algebra and Applications
- **Qualification Awarded with: Distinction.**

Master of Science: Applied Mathematics, Addis Ababa University, Ethiopia   Sep 2005 – Aug 2007

- Algebra I & II
- Real Analysis I & II
- General Topology
- Complex Analysis
- Functional Analysis I
- Numerical Analysis I & II

- **Qualification Award with**: **Distinction.**

Bachelor of Science: Applied Mathematics, Addis Ababa University, Ethiopia   Sep 2001 – July 2005

- Advanced Calculus of and several variables
- Optimization Theory I & II
- Data Structure and Algorithms Analysis
- Database Management
- Software Engineering
- Advanced Programming

- **Major:** Applied Mathematics, **Minor:** Computer Science

PROJECTS

- **High Precision Contract Advisor RAG:** Developed, implemented, and assessed a RAG system for contract Q&A. Conducted evaluations on retrievers from LangChain, selecting the most efficient one for integration into the RAG system. Developed a full-stack web app with React and Flask for users to upload contracts and ask questions about the content of the contract.
- **Automatic Prompt Generation RAG** Designed, implemented and evaluated a RAG system for automatic prompt and prompt template generation.
- **LLM Fine-tuning for Amharic Ads Generation** Fine-tuned the pre-trained llama-2-amharic-3784m model, originally derived from llama-2-7b-hf, specifically for generating Amharic ads.

CERTIFICATES

- **React Native (Mobile App Development)**, Bahir Dar Institute of Technology
- **Scientific Computing with Python)**, FreeCodeCamp