

# Michael G/Giorgies

## AI/ML Engineer

✉ [mikimare21@gmail.com](mailto:mikimare21@gmail.com)

✉ [Linkedin](#)

📞 +251-923-598583

🌐 [Github](#)

🌐 [www.michaelG.com](http://www.michaelG.com)

### Summary

Results-driven engineer with 3+ years of experience in designing, developing, and deploying intelligent systems. Specialized in AI and machine learning, with expertise in LLMs, RAG, agents, and data pipeline development. Proven ability to build and optimize end-to-end solutions, backed by an ongoing MSc in Data Science..

### Experience

- **AI Engineer | BETiN** Apr. 2018 - Present/ Full Time
- Developed automated tomato disease detection using Inception v3 model on 2000 local tomato leaf data (1400 diseased, 600 healthy), achieving 90% accuracy.
  - Created diseasedetection system with VGG19 model on 3200 wheat blade images (2000 diseased, 1200 healthy), achieving 87% accuracy.
  - Developed a data tracking system using Trello to monitor progress of 20 Ethiopian university interns over 2 years, and designed a Notion-based program to organize and manage internship activities.
- **Data Analyst | STIC** Jan. 2017 - Mar. 2018/ Full Time
- Spearheaded the digital transition to tablet-based data collection for a national survey, enhancing data processes and integrity.
  - Utilized Tableau and Power BI for data visualization and insights.

### Projects

- **Contract assistant AI**
- Developed a conversational Q&A system using RAG, LangChain, and Pinecone. Optimized pipeline performance with context reranking, achieving a 67% improvement in context precision.
- **Academic Research Assistant agent**
- Developed a sophisticated AI-powered system that helps researchers explore and analyze academic papers. The system automatically scrapes papers from PubMed, processes them using state-of-the-art AI models, and provides intelligent responses through a modern web interface.
- **LLM Finetuning**
- Fine-tuned Llama 2 to create an Amharic RAG pipeline for generating creative text Ad contents.

### Education and Certificate

- **Addis Ababa University | Addis Ababa, Ethiopia** sep. 2024 – dec. 2025
- Msc Degree in Information and Data Scinece`
  - Took Applied ML, NLP, Data Scinece,Information Retrieval and IS courses
- **10 Academy| California,USA** Apr. 2024 – Oct. 2024
- 6 months Project based intensive training
  - Generative AI, Machine learning and Data engineering
- **CDAC| Delhi, India** Sep. 2023 - Dec 2023
- 1 Month training of Data Science with python
  - Completed Machine Learning course with ML project on Flipcart sentiment analysis and classification
- **Addis Ababa University | Addis Ababa, Ethiopia** Oct. 2012 - Jul. 2016
- Bachelor's Degree in Mechanical and Industrial engineering`
  - Took OOP, Statistics, embeddedsystems, applied math and physics courses

### Skills

- Language :** Python, SQL, Java, C+, React
- Framework :** LangChain, LlamaIndex, CrewAI , TensorFlow, PyTorch, Scikit-learn, Keras
- Tools:** Pinecone, Weavate, Jupyter, Git, Docker, Kubernetes, CUDA, Pandas, , Matplotlib, Scipy
- Platforms:** AWS, NoSQL, MongoDB
- AI/ML:**RAG, LLMs (GPT, BERT, Llama 2), Prompt Engineering, Fine-Tuning & PEFT, Transformer Models, Computer Vision