

Bisrat Berhanu Negus

✉ bisratbnegus@gmail.com ☎ +251963103351 📍 Addis Ababa, Ethiopia 🔗 LinkedIn 🐙 GitHub
🔗 Portfolio

EDUCATION

Addis Ababa University

06/2021 – 07/2026 | Addis Ababa, Ethiopia

Electrical and Computer Engineering Student

- One of the **Top 10** Universities in Africa. 📄

• **CGPA: 3.8/4**

- **Relevant Courses** :Software Engineering, Relational Databases, Object oriented programming, Data structure and Algorithms, Computer Network and Security, Computer Architecture and Organization.

Africa To Silicon Valley | A2SV - Backed by Google 📄

11/2023 – 11/2024 | Addis Ababa, Ethiopia

Competitive Programming and Coding Academy

- A2SV placed **60+** students at top-tech companies such as Google, Bloomberg, Databricks, Amazon, LinkedIn, and Square in the last four years.
- Graduated from A2SV with a strong foundation in data structures and algorithms (Solved **900+** problems on LeetCode 📄 and Codeforces 📄) and hands on experience on backend development.

PROFESSIONAL EXPERIENCE

Computer Vision Intern

09/2024 – present | Addis Ababa, Ethiopia

Ethiopian Artificial Intelligence 📄

- Developed and deployed an enhanced line detection OCR model for Ge'ez script, improving speed and reducing processing errors. Spent over **50 hours** annotating data, which optimized system efficiency by **33%** for processing a 30 page document dataset.

Machine Learning Internship

08/2024 – 11/2024 | Addis Ababa, Ethiopia

iCog Labs 📄

- Implemented a Neural Generative Coding framework 📄 as an alternative to backpropagation in neural network training, achieving comparable results across more than **5 evaluation metrics**.
- Worked on recreating a ChatGPT-like model using this neural coding framework, observing performance similar to backpropagation methods.

PROJECTS

Mella Developer Monetization 📄

06/2024 – 08/2024

- Designed and implemented a full-stack product with a **team of 5** using PostgreSQL, Express.js, React, and Node.js to streamline monetization and payment acceptance, integrating a payment gateway and a user-friendly interface, potentially halving transaction times.

A Domain Expert Model 📄

02/2024 – 04/2024

- Tasked with creating a domain expert model to provide more accurate, specialized responses in a specific domain.
- Fine-tuned a large language model using **Amazon SageMaker** on a domain-specific dataset, improving model performance upto **25%**.

SKILLS

Web Development

- React, Go, Java, Node, , MongoDB, PostgreSQL, MySQL, RESTful APIs, SQL, NoSQL, System Design, CI/CD, Git, GitHub, Integration Testing, Clean Architecture.

Machine Learning

- Python, Matplotlib, NumPy, Neural Networks, Computer Vision, Supervised Learning, Unsupervised Learning.

Micro Controllers and Embedded Systems

- C, C++, Assembly, LTSpice, Proteus, Matlab, Embedded Workbench, Raspberry Pi, Arduino, Microcontroller Programming, Sensor Integration.

CERTIFICATES

Python for Everybody 📄

Google IT support 📄

ACHIEVEMENTS

Certificate of Outstanding Performance on the National University Entrance Examination

- Among the top **0.01%** performers on the 2012 E.C. National Entrance Exam, achieving a score of **647** out of 700.