



Yohannes Ayana Ejigu

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ABOUT ME

Yohannes Ayana | AI researcher, Data Scientist

Master's degree holder in AI and Data Science with a 4.0 GPA. Passionate about Computer Vision, NLP, ML, and DL. Driven to innovate and harness AI's potential to solve real-world challenges.

WORK EXPERIENCE

10/12/2020 – CURRENT Bahir Dar, remote, Ethiopia

AI INSTRUCTOR, AI RESEARCHER, DATA SCIENTIST BAHIR DAR INSTITUTE OF TECHNOLOGY, FREEANCE

- AI model development
- Data Analysis and Insights
- NLP and Speech recognition tasks
- Computer vision solutions
- Machine learning model deployment
- Multimodal DL applications
- AI training and workshops
- Teaching AI courses to BDU stem center students
- Assisting AI projects for BiT stem students

28/06/2020 – 05/12/2020 Bahir Dar, Ethiopia

ELECTRICAL ENGINEER RAVAL STEEL MANUFACTURING PLC

- Optimized systems with data analytics
- Designed AI fault detection
- Integrated ML in automation
- Enhanced efficiency with data analysis

29/10/2019 – 27/06/2020 Burie, Ethiopia

JUNIOR ELECTRICAL ENGINEER RICHLAND BIO MEDICAL PRODUCTION PLC

- Developed predictive maintenance AI
- Automated processes with ML
- Improved safety using data insights
- Streamlined operations with analytics
- Enhanced equipment reliability with AI

EDUCATION AND TRAINING

10/10/2021 – 19/07/2023 Bahir Dar, Ethiopia

MASTERS DEGREE OF SCIENCE (MSC.) IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE Bahir Dar Institute of Technology, Bahir Dar University

- Machine learning
- Deep learning
- Computer vision
- Natural language processing

Statistics, Big Data, Data Privacy

Website www.bdu.edu.et | **Field of study** Artificial Intelligence and Data Science | **Final grade** 4.0 | **Level in EQF** EQF level 7 |

Thesis End-to-end speech recognition for Amharic language using deep learning

29/09/2014 – 15/07/2019 Bahir Dar, Ethiopia
BACHELORS DEGREE OF SCIENCE (BSC) IN ELECTRICAL ENGINEERING Bahir Dar Institute of Technology, Bahir Dar University

Website www.bdu.edu.et

online, United States
MACHINE LEARNING Coursera

Website www.coursera.org

online, United States
COMPUTER VISION Coursera

Website www.coursera.org

online, United States
BIG DATA Coursera + San Diego Super computer

Website www.coursera.org

● **LANGUAGE SKILLS**

Mother tongue(s): **AMHARIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C2	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

🛠 Machine Learning | Pytorch,Tensorflow | Model optimization | Speech recognition | Computer vision | NLP | Python | Django | Scikit-learn | Data Visualization | Hadoop | MySQL | PostgreSQL | Statstical Analysis | Deep learning | version control | Cloud platforms

● **CONFERENCES AND SEMINARS**

01/09/2024 – 08/09/2024 Dakar
INDABA Deep Learning 2024

Attended the 2024 Deep Learning Indaba in Dakar, Senegal, where I gained valuable insights through keynotes, workshops, presentations, and hands-on practical sessions.

09/01/2025 – 12/01/2025 Cape Town
DataViz workshop

I have been selected to participate in the DataViz workshop in Cape Town, South Africa

01/05/2018 – 03/05/2018 Kombolcha
6th Ethiopian Annual University, TIVET and Industry linkage conference

I represented Bahir Dar University at a conference in Kombolcha, where our project won the best internship title in Ethiopia and received recognition from the organizers

● HONOURS AND AWARDS

12/08/2024

Emerging Leaders in AI - Ph.D. Prep Program – Black in AI

Selected for the Emerging Leaders in AI PhD Prep Program, where I received mentorship, application guidance, and joined a network of aspiring AI professionals

13/09/2024

Simons Computational Neuroscience Imbizo – University of Cape Town

Selected to attend the Simons Computational Neuroscience Imbizo, a prestigious summer camp in Cape Town, South Africa, taking place from January 12 to February 2, 2025

17/03/2019

Winning best internship project of the year – Bahir Dar Institute of Technology, Bahir Dar University

25/10/2018

Winning best project of the year – Bahir Dar University, BiT, Faculty of Electrical and computer Engineering

29/06/2018

Recognition letter for Industrial automation – Tsehay paints factory

● COMMUNICATION AND INTERPERSONAL SKILLS

Effective Team Collaboration

Clear and Concise Verbal Communication

Active Listening and Empathy, understanding diverse perspectives for collaborative problem-solving

Adaptability in cross-disciplinary settings, communicating effectively with professionals from various domains

● CREATIVE WORKS

End-to-end speech recognition model for Amharic language using deep learning

Applying noisy reduction techniques to build a robust speech to text model with noisy data of Amharic language

Developing a customized Hybrid Architecture (CNN, RNN, CTC) model for Amharic speech to text model

● PROJECTS

Speech recognition for Amharic language with noisy, noisy free and combined data

Multiple diseases prediction using ML and DL algorithms

Spelling checker and corrector for Amharic language

Document classification of supervised data using DL

Breast cancer detection using ML and DL algorithms

Amharic news classification using DL algorithms

Real time emotion detection

● PUBLICATIONS

2024

Enhancing Amharic Speech Recognition in Noisy Conditions through End-to-End Deep Learning

2024

Large Scale Speech Recognition for Low Resource Language Amharic, an End-to-End Approach

● VOLUNTEERING

15/10/2022 – CURRENT

AI training and workshops

As part of my community service, I have conducted training sessions and workshops on Artificial Intelligence (AI) at the Bahir Dar STEM center

● HOBBIES AND INTERESTS

Reading

New language learning

Swimming

● RECOMMENDATIONS

Birhanu Hailu (PhD) Research scientist at University of Alabama at Birmingham

He was my instructor for machine learning and deep learning courses during my master's program. Additionally, he mentored me, offering valuable guidance and support in my academic pursuits and assisting the class. He also served as my internal examiner during my thesis evaluation.

Email birhanuhailub@gmail.com

Tesfa Tegegne (PhD) Head of Computing Faculty at BiT, Bahir Dar University

He was both my instructor for research methodologies during my master's program and served as my advisor for my thesis

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