



Anteneh Getachew Yitayal

Nationality: Ethiopian **Phone number:** (+251) 942035265

Email address: getachewante@gmail.com

LinkedIn: <https://linkedin.com/in/anteneh-getachew-5738961b7/>

Website: <https://abiget.github.io/>

Home: Addis Ababa, 1000 Addis Ababa (Ethiopia)

ABOUT ME

A self-motivated and passionate individual looking to pursue a Master's in Robotics and Automation Engineering. A research intern and University graduate with an ardent desire to research machine learning and AI. My extensive drive and ambition for research were further amplified after obtaining excellent grades in mathematics and robotics courses in my undergrad and working in machine learning for default loan prediction with a team of four researchers. Experience in machine learning and deep learning research as well as presenting a conference and constructing a research paper.

EDUCATION AND TRAINING

Bachelor of Science degree in Electrical Engineering (Computer Engineering focus)

Addis Ababa Science and Technology University [19/09/2016 – 10/09/2021]

Address: Addis Ababa, 1000 Addis Ababa (Ethiopia)

Website: <http://www.aastu.edu.et/>

Final grade: 3.73

Thesis: Sketch to photo matching from public database for forensic investigation using deep learning

WORK EXPERIENCE

Web app developer (Freelancer)

Choice Water Factory S.C. [01/01/2021 – 30/04/2021]

City: Addis Ababa

Country: Ethiopia

Website: <https://www.choice-water.com/>

1. Design and deploy a database schema with a team of three developers.
2. Build a website that manages the company's resources using Symfony PHP framework.
3. I worked on both the front-end and back-end parts of the web app.
4. Front-end was using Bootstrap framework.

Machine Learning researcher

Chapa Financial Technologies S.C. [01/04/2021 – 31/08/2021]

City: Addis Ababa

Country: Ethiopia

Website: <https://chapa.co/>

Email address: israel@chapa.co

Name of unit or department: Chapa AI Research

1. Worked on a research project to mitigate the non-performing loans of private banks in Ethiopia using Machine Learning algorithms.

2. We worked with Python libraries such as Scikit Learn, and used Tensorflow / Keras and PyTorch frameworks, with a team of three researchers.
3. Explored some machine learning techniques for credit scoring and fraud detection.
4. Participated in the first Pan African AI Conference 2022 along with a team of four researchers.

Google Developers Machine Learning Bootcamp SSA 2022 participant

[01/08/2022 – 01/01/2023]

1. Explored various deep-learning methods from basic logistic regression to computer vision and recurrent neural networks.
2. Gained invaluable experience from mentorship, webinars, and career talks by people who work in international companies around the world including YouTube and Google.
3. Equipped me with important tools and technologies such as Python programming, Tensorflow/Keras, and research skills.

ADDITIONAL COURSES

Deep Learning Specialization online courses

[09/2022]

These are five courses provided by Coursera. I have implemented neural network architectures such as Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, and Transformers, and learned how to make them better with strategies such as Dropout, BatchNorm, and Xavier/He initialization. I have mastered these theoretical concepts, learned their industry applications using Python and TensorFlow, and tackled real-world cases such as speech recognition, music synthesis, chatbots, machine translation, and natural language processing.

Link: <https://coursera.org/verify/specialization/4TBXQH4PM74X>

Machine Learning online course

[02/2023]

This course focuses on building machine learning models in Python using popular machine learning libraries NumPy and scikit-learn. I have built and trained supervised machine learning models for prediction and binary classification tasks, including linear regression and logistic regression.

Link: <https://coursera.org/verify/J4656QFGQJ5X>

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning course

[11/2022]

I have learned best practices for using TensorFlow, a popular open-source machine learning framework and build a basic neural network in TensorFlow and extend the basic idea for a computer vision application.

Link: <https://coursera.org/verify/S48E5DCV386S>

Python for Data Analysis and Visualization course

[06/2022]

I have been taught Python libraries for Data Analysis and Visualization such as NumPy, Pandas, Matplotlib and Seaborn. I have gained essential knowledge on how to analyse and manipulating data, and display that data in the form of interesting charts using Matplotlib, Seaborn and Plotly Express

Link: <https://www.udemy.com/certificate/UC-f5d84edb-e5f4-4fb7-a016-e76cbdac0325/>

LANGUAGE SKILLS

Mother tongue(s): **Amharic**

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

DIGITAL SKILLS

Python Programming / Machine Learning and Data Science / Pytorch python framework / PHP Programming / C and C++ Programming / Java Programming / Java script, CSS, HTML / Microsoft Word / Google Docs / Team-work oriented / Research and analytical skills / LaTeX / GIT AND GITHUB

PUBLICATIONS

Machine Learning Models Evaluation and Feature Importance Analysis on NPL Dataset

[2022]

Machine Learning for Development (ML4D) workshop at NeurIPS 2021.

PROJECTS

Parallel Implementation of Artificial Neural Network using c programming

Parallelize the serial implementation of Artificial Neural Network using c++ Pthread and Openmp frameworks to reduce the computation time.

Cyber-security risk analysis using CORAS approach

Worked on cyber-security risk analysis on the Bole sub-city administration data center, in Addis Ababa, using the CORAS approach.

Spam detection using classical machine learning models

The project was intended to increase the performance of machine learning models using a publicly available dataset by attempting various machine learning methods and data oversampling techniques.

Counterfeit banknotes detection using deep perceptual autoencoder

I was working on this research project by exploring autoencoders for tasks other than the medical image dataset, which helps to reduce the amount of negative data examples for training deep learning models.

Networking Design using cisco packet tracer

Design a network architecture for Addis Ababa Science and Technology University as part of the Data communication and Computer Networks course.

NETWORKS AND MEMBERSHIPS

Member of black in AI community

VOLUNTEERING

Volunteer at St. Rufael and St. Arsema Church charity

[Addis Ababa , 11/10/2016 – 04/07/2022]

Volunteer Researcher in leadership and youth empowerment

[Addis Ababa , 01/10/2022 – 01/12/2022]

Link: <https://safelightet.org/>