

# Yeabsira Tadesse Bekele

## Computer Engineer and Software Developer

I'm a passionate and enthusiastic Software Developer with robust problem-solving skills. My inquisitive nature drives my fascination with the applications of Data Science in Biology and Physics among other things. I'm also an avid soul who enjoys learning new things and tirelessly strive to contribute to the collective effort of the human kind.



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## ACADEMIC BACKGROUND

### BSc in Electrical And Computer Engineering Addis Ababa Science And Technology University

2016 - 2021

*Graduated in first class with  
distinction with Cumulative GPA of  
3.42*

### DIPLOMA Ethio-Parents' School

2003 - 2016

*Attended primary and secondary  
school, and received a high school  
diploma.*

## WORK EXPERIENCE

### Machine Learning Engineer, Software Developer

#### New Era Research and Development Center (N.E.R.D)

04/2021 - 08/2021

Addis Ababa, Ethiopia

##### Tasks

- Data Collection and Annotation, Training, Optimizing and Deploying Machine Learning Models on Edge Devices.
- Designed and programmed Computer Vision-Based AI applications.
- Drone Programming.
- Teaching trainees on Introduction to Statistical Learning and the basics of Neural Networks.
- Documentation preparation and presentation.

Contact : Mr. Natnael Kebede Debel - +251 921561976

### Software Developer ICog Labs

02/2022 - Present

Addis Ababa, Ethiopia

##### Achievements/Tasks

- Started working on building Smart Contract Blockchain System using Plutus framework on top of Haskell.
- Utilizing the Meta-Optimizing Semantic Evolutionary Search (MOSES) algorithm to generate a classification tree for different datasets.
- Collaborated on building Recommendation System for MindPlex's News Letter Article platform.

Contact : Mr. Leykun Ejegu - +251 91 220 9927

## SKILLS

Python, C++, Java, Haskell, Javascript, Django, SQL

TensorFlow with Keras, OpenCV

Networking

Embedded Systems

Data Structure and Algorithms

Team Work

Design thinking and presentation

## PERSONAL PROJECTS AND CERTIFICATES

### Recommendation Systems

- Developed Movie, Sentiment Analysis and News Article Recommendation Systems.

### Cultural Artifact Recognition System

- Developed a mobile application embedding a machine learning framework that's capable of taking an image of historical and cultural artifacts and classifying them to their specific heritage name and provide a historical background.

### Amharic OCR

- Won a N.E.R.D CON Hackathon coding competition by developing optical character recognition system that's capable of extracting texts from scanned and photographed image files, and puts forth the extracted text readily available for users on a web platform.

### Intelligent Traffic Light Control System

- Aimed at improving the inefficient and laborious traffic control system in Ethiopia, this project involves the use of advanced deep-learning models and algorithms deployed on edge devices. The system detects and classifies objects such as Cars, Trucks and Motorcycles so it can adjust the traffic light's timing with respect to lane density.

### Drone Programming

- AI enabled Face-Tracking system is among the most intriguing DJI Tello drone programming projects I've worked on. Another work is the Mapping project where the drone is programmed to automatically lift off the ground and traces a saved map coordinate.

### Modeling Time Series Data with Recurrent Neural Network

- The NVIDIA online course I took about Modeling Time Series Data with Recurrent Neural Networks enabled me to build a program that tracks patients' heart rate, and gave me a solid footing on the medical applications of AI.

### DLI C-FX-05 Certificate \_ Deep Learning Institute

- A workshop training on Accelerated Engineering Pipelines from NVIDIA.

### Mathematics for Machine Learning Specialization

- Courses on Linear Algebra, Multivariate Calculus and Principal Component Analysis from Coursera.