Surafel Amsalu

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📍 **Home:** Addis Abeba (Ethiopia)

ABOUT ME

Hello, I'm Surafel Amsalu, an AI Engineer, Data Scientist, and seasoned Web Developer from Addis Ababa, Ethiopia. I hold a Master's degree in Artificial Intelligence and Data Science from Bahir Dar University, a Bachelor's degree in Computer Science from Axum University, and a Bachelor of Arts in Management from Blue Mark College.

My diverse educational background has enabled me to develop a robust skill set that spans multiple domains. I have extensive expertise in computer vision, deep learning, machine learning, SQL, data cleaning, data visualization, and Python. In addition to my data science capabilities, I bring over five years of experience as a full-stack web developer. I am proficient in technologies such as React, React Native, Node.js, Express.js, Next.js, TypeScript, Apache Airflow, Docker, and CI/CD pipelines.

Currently, I am working on health lab result analysis using machine learning and computer vision for Amhara Public Health. My role involves developing models to accurately interpret and analyze lab results, enhancing diagnostic accuracy and efficiency. Simultaneously, I am involved in ESG (Environmental, Social, and Governance) automation using Django for Zare Innovation, where I am developing automated systems to streamline ESG data collection and reporting processes.

I am a certified Python Developer from the University of Michigan and hold certifications in Machine Learning, Google Analytics, and IBM Data Science through Coursera. My commitment to continuous learning and professional growth drives my passion for leveraging technology to solve complex problems and improve processes across various industries.

WORK EXPERIENCE

AI Engineer & Data scientist

Zare Innovations [19/01/2024 – Current]

City: Addis Abeba | **Country:** Ethiopia

-Develop and deploy machine learning models for automated analysis and decision-making.
-Utilize machine learning algorithms to extract insights from data and drive decision-making.
-Design and implement scalable backend systems to support machine learning applications.

AI Engineer & Data scientist

Amhara Public Health Institute [05/02/2024 – Current]

City: Bahir Dar | **Country:** Ethiopia

-Develop and deploy machine learning models to enhance public health data analysis and decision-making at the Amhara Public Health Institute.

-Utilize advanced analytics and machine learning techniques to extract actionable insights from public health data at the Amhara Public Health Institute.

-Design and implement robust backend systems to support data management and analysis tools for public health initiatives at the Amhara Public Health Institute.

Registrar Head and System Administration

BM Collage [14/09/2018 – 16/02/2021]

City: Bahir Dar | **Country:** Ethiopia

EDUCATION AND TRAINING

Master's degree

Bahirdar University [10/05/2021 – 07/09/2023]

City: Bahir Dar | **Country:** Ethiopia | **Website:** https://www.bdu.edu.et/ | **Field(s) of study:** Artificial Intelligence and Data Science | **Final grade:** 3.43 | **Thesis:** Develop The Herbs Plant Classification Model For Patient Care Using Deep Learning

Bachelor's degree

Axum University [14/06/2015 – 12/07/2018]

City: Axum | **Country:** Ethiopia | **Website:** https://www.facebook.com/AksumUniversityOfficial/ | **Field(s) of study:** Computer Science | **Thesis:** Help Desk System

Bachelor of Arts

Bluemark Collage [11/08/2019 – 08/2022]

City: Bahir Dar | **Country:** Ethiopia | **Website:** https://www.facebook.com/search/top/?q=bluemark collage | **Field(s) of study:** Management | **Final grade:** 3.98

Machine Learning with Python (with Honors)

IBM [15/05/2022 – 21/12/2023]

Website: https://www.coursera.org/account/accomplishments/records/DMKZJXSUJZM2

Google Data Analytics Specialization

Google [11/06/2023 – 04/12/2023]

Website: https://www.coursera.org/account/accomplishments/specialization/certificate/KBC9CNNC689Z

IBM Data Science Specialization

IBM [15/04/2023 – 13/11/2023]

Website: https://www.coursera.org/account/accomplishments/specialization/XQC7LRT4YTNT

Python for Everybody University of Michigan

University of Michigan [15/02/2023 – 11/12/2023]

Website: https://www.coursera.org/account/accomplishments/specialization/certificate/D3EVN7F5WFYM

LANGUAGE SKILLS

Mother tongue(s): Amharic | English

DRIVING LICENCE

Driving Licence: D1   04/08/2022 – 06/06/2027

PROJECTS

[08/07/2021 – 07/03/2023]

Develop The Herbs Plant Classification Model For Patient Care Using Deep Learning This project leverages a powerful, pretrained computer vision model to classify and describe various herbal plants. Through cutting-edge image recognition techniques, it accurately identifies and provides detailed descriptions of a wide range of herbal species. Explore the world of herbal plants with this comprehensive tool, which can be invaluable for botanists, herbalists, and anyone interested in the diverse realm of botanical life.

Link: https://github.com/surafelamsalu21/Herbal-plant-classification-and-description

HONOURS AND AWARDS

[06/05/2021] BM Collage
Employ of The Year

MANAGEMENT AND LEADERSHIP SKILLS

Registrar Head and System Administration As a Registrar Head and System Administrator, I possess strong management and leadership skills. I have successfully led teams, streamlined processes, and facilitated effective communication among stakeholders. My expertise in system administration has allowed me to make strategic improvements for organizational success.

HOBBIES AND INTERESTS

Reading and Research I have a keen interest in staying updated with the latest advancements in AI, machine learning, and data science. I enjoy reading research papers, attending webinars, and participating in online courses to expand my knowledge.

Programming and Coding In my free time, I enjoy working on personal coding projects, exploring new programming languages, and contributing to open-source projects.

Data Analysis I love diving into datasets and uncovering hidden insights. I often participate in data challenges and competitions on platforms like Kaggle.
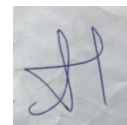
Fitness and Outdoor Activities To maintain a healthy work-life balance, I engage in regular physical activities such as running, hiking, and playing football.

Problem Solving and Puzzles I enjoy solving complex problems and puzzles, which helps sharpen my analytical and critical thinking skills

I am dedicated to leveraging my expertise in artificial intelligence and data science to develop innovative solutions that address real-world challenges. My current projects in health lab result analysis and ESG automation demonstrate my commitment to improving efficiency and accuracy in diverse fields. With my strong educational background and a wide range of certifications, I am well-equipped to contribute to cutting-edge projects and drive technological advancements.

21/05/2024

Surafel Amsalu