

Amanuel Tefera

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Education

Hope College, Holland, MI
BA in Computer Science

Expected graduation: May 2026

Honors/Awards:

Hope forward scholarship
posse foundation finalists

WORK EXPERIENCE

Boerigter Center for Calling and Career, Holland, MI | Jan 2023 – May 2023

Career Ambassador at Hope College

- Assisted a diverse group of thirty-five students/guests by seamlessly connecting them to the comprehensive services provided by the Boerigter Center.
- Demonstrated efficiency in managing inbound and outbound calls, delivering exceptional customer service, and promptly addressing inquiries.
- Managed email correspondence adeptly, providing clients/customers with timely and accurate information.

Research at the Hope College Physics Department | Aug 2022 – Nov 2022

Hope college particle accelerator

- Conducted experimental research at the Hope College Physics Department, working under the guidance of Andrew Bunnell.
- Explored particle physics and acquired proficiency in operating the Hope College particle accelerator.

Artificial Intelligence Research Assistant, Holland, MI | Aug 2023 – Present

Hope College

- Collaborated with Dr. Omofolakunmi (Fola) Olagbemi to develop and implement an innovative AI system to predict optimized motion for nurses.
- Enhanced departmental efficiency and task performance through the integration of artificial intelligence.
- Utilized XCM to effectively sample test cases, optimize big data processing, and ensure AI model explainability across complex frameworks.

TECHNICAL SKILLS

computer languages Languages: Java, Python, JavaScript, HTML/CSS

Libraries: pandas, NumPy, matplotlib, sklearn, seaborn, xgboost

Language: fluent in Amharic

PROJECTS

Website| Personal project

- Developed a personal website to showcase technical skills and projects
- Implemented responsive design using HTML, JavaScript and CSS for cross-browser compatibility
- Demonstrated proficiency in client-side web development and customization

Data Analysis and Classification Project

- Applied advanced Python programming skills to analyze and manipulate a Pokemon dataset.
- Utilized the NumPy library for efficient data manipulation and numerical operations.
- Implemented the k-Nearest Neighbors (k-NN) algorithm to classify and organize the Pokemon data set.
- Achieved accurate sorting and classification results, leveraging the power of data-driven decision-making.
- Demonstrated proficiency in machine learning techniques to enhance data understanding and categorization.

Facial Recognition Application

- Developed real-time facial recognition application in Python using OpenCV library
- Imported haar cascade classifier to detect frontal faces in video stream
- Captured video frames, converted to grayscale, applied classifier to identify faces
- Drew bounding boxes around detected faces with over 90% accuracy
- Demonstrated proficiency with OpenCV and machine learning for computer vision projects

