

BELAYNESH KNDIE

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ABOUT ME

Erasmus Mundus MSc candidate in Brain and Data Science with a background in Software Engineering and research experience in Python, data analysis, and machine learning, with a focus on working with real-world data and building structured data processing workflows. Interested in applying data and AI to solve practical problems, generate actionable insights, and improve system efficiency. Motivated to contribute to scalable analytics and machine learning solutions in production environments.

SKILLS

Programming: Python, JavaScript, Java, C++

Data & AI: SQL, Machine Learning, Data Analysis, NLP, PyTorch

Backend & Data: Node.js, PostgreSQL, REST APIs, data pipelines

Tools & Environment: Git, Linux, Docker, Azure, MNE-Python

EXPERIENCE

MSc Thesis Research

University of Jyväskylä | 2025–Present

- Conducting MSc thesis research on multimodal stress classification using MEG and cardiac signals
- Processing and analyzing neurophysiological and ECG-derived feature using Python and MNE-Python
- Performing data preprocessing, feature engineering and feature extraction
- Developing and evaluating machine learning pipelines for stress-state classification
- Building structured and reproducible workflows for data analysis and model comparison

Web Developer.

Eyu-Ethiopia Nov 2022 – Oct2024

- Developed and maintained organizational web applications supporting operational workflows and information delivery
- Improved system reliability and usability and performance through debugging and continuous updates
- Worked with structured data and backend systems to support business operations
- Collaborated with stakeholders to improve functionality based on operational needs

Assistant Lecturer

BahirDar University | Oct2021–2024

- Supported programming courses and collaborated with students to solve technical problems
- Guided software projects and encouraged structured problem-solving and teamwork and clear communication
- Mentored students in Python, software development, and debugging practices

Software engineering Intern

Ethiopian Airlines | 2019 – 2020 | 4 months

- Supported software-related tasks within the IT environment as assigned
- Performed coding tasks using C# / .NET core under supervision

EDUCATION

MSc Brain and Data Science

University of Jyväskylä, Finland

Bar-Ilan University, Israel | 2024 –2026 (thesis submitted, degree pending)

- Focus on machine learning, data analysis, and computational methods using Python for real world applications.
- Expected graduation end of May 2026

International Summer School Program

University of Zagreb, Croatia | Jun – Jul 2024

- Participated in an intensive academic and technical training program in Croatia

BSc Software Engineering

Bahir Dar University, Ethiopia | 2021

- Covered programming, data structures, databases, and software development fundamentals.

TRAININGS

Full-Stack Software Development Training

Minab Tech + Bahir Dar Institute of Technology | May–July 2023

- Completed an intensive program covering modern frontend and backend development through practical exercise
- Built applications integrating JS frameworks, PostgreSQL databases and GraphQL APIs
- Gained introductory experience with containerized development workflows using Docker

BCI & Neurotechnology Spring School 2026

g.tec medical engineering | 2026

- Completed intensive training in Brain-Computer Interfaces (BCI), EEG signal analysis, SSVEP, motor imagery, and neurotechnology applications
- Participated in the BR41N.IO Brain-Computer Interface Designer’s Hackathon
- Developed an educational game using SSVEP EEG signals and machine learning classification
- Successfully completed the final assessment with a score of 90/100

LANGUAGES

English: Professional working proficiency

Amharic: Native

Hebrew: Lower intermediate

Finnish: Beginner