

PERSONAL INFORMATION

Mulubrhan Abebe Nerea

 Addis Ababa, Ethiopia

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Gender Male | Nationality Ethiopian

PROFESSIONAL EXPERIENCE

Ethiopia AI Institute Data Scientist/ML Expert (Jan 2023 - Present)

- Led development of an ASR model for Amharic, achieving high accuracy.
- Processed large Amharic audio/text datasets for training.
- Collaborated to integrate ASR into an Amharic audio search system.
- Implemented and fine-tuned deep learning models for ASR.

Freelance/Part Time Lecturer/Software Developer/Data Annotator/ML Expert (Oct 2021 - Jan 2023)

- Dedicated lecturer in computer science and engineering.
- Annotated Amharic language datasets for ML tasks.
- Applied ML expertise to develop/fine-tune models for Amharic tasks.
- Collaborated on projects, meeting deadlines.

Microgeez IT Solutions plc Software Developer and Tester (Oct 2019 - Oct 2021)

- Collaborated in C# software development for front-end and SQL Server back-end.
- Developed test plans, executed procedures, and validated software functionality.
- Maintained documentation, provided training, and support during deployment.

Adigrat University / Electrical and Computer Engineering Dept

Computer Engineering Lecturer (Sep 2017 - Oct 2019)

- Dedicated educator in computer engineering.
- Proficient in conveying complex concepts and guiding students in hands-on projects.
- Actively involved in research, contributing to advancements in computer engineering fields.

EDUCATION

B.Sc. in Electrical and Computer Engineering Mekelle University (Sep 2012 - July 2017)

M.Sc. Computer Engineering Addis Ababa University (Pending)

PROJECTS(LATEST)

Amharic ASR Model Development

- Designed/developed a highly accurate ASR model for the Amharic language.
- Acquired, cleaned, and curated a comprehensive dataset of Amharic audio recordings.
- Implemented the ASR model using deep learning techniques.
- Deployed the ASR model for real-time transcription and integrated it into an Amharic audio search system.

Amharic Audio Search System

- Created an Amharic audio search system allowing users to search specific content within Amharic audio recordings.
- Seamlessly integrated the ASR model for real-time transcription and indexing.
- Implemented advanced indexing and query processing techniques for efficient content retrieval.
- Designed user-friendly interfaces for search and retrieval.

SKILLS

Programming Languages	Python (NumPy, pandas, scikit-learn), JavaScript (React, node)
Deep Learning Frameworks	TensorFlow, PyTorch, Keras
Natural Language Processing	Text pre-processing, word embedding, sentiment analysis
Data Analysis	Exploratory data analysis, data visualization (Tableau, Power BI, Excel)
Tools	Jupyter Notebook, PyCharm, Git, GitHub
Databases	SQL

LANGUAGES

English	Fluent
Amharic	Native
Tigrinya	Native

CERTIFICATIONS AND PROFESSIONAL TRAINING

Google Data Analytics Professional Certificate (Coursera)	Oct 2023
Cisco Academy Certifications	Data Analytics Essential, Python Essentials 2, Introduction to Data Science (2023)
Introduction to Python (DataCamp)	Free Certificate, 2023
Introduction to Python for Data Science and JAVA (CoRise)	Free Certificate, 2023
Deep Learning Specialization (Coursera)	Dec 2021

REFERENCES

Rosa Tsegaye, PhD	Director, Natural Language Processing Division, Ethiopia AI Institute rosa.tsegaye@aai.et
Solomon Nigussie	General Manager, Microgeez Plc microgeez@gmail.com