

Resume

Mesay Gemedas Yigezu

Ph.D in Computer Science

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[Google Scholar](#)

Professional Summary

Ph.D. in Computer Science with a strong background in Natural Language Processing and machine learning, specializing in multilingual hate speech detection for low-resource languages. My research focuses on cross-lingual transfer learning, dataset quality, fairness-aware modeling, and explainable AI (XAI) to develop responsible and inclusive NLP systems. I have extensive experience designing transformer-based models and implementing data-centric methodologies to improve transparency, robustness, and ethical reliability in multilingual settings.

I have academic experience in university teaching and student supervision, with interests spanning responsible AI, multilingual modeling, and digital ethics in different domains.

In addition, I bring practical experience in applied IT roles, including network engineering and enterprise IT support, and I am skilled in deploying scalable AI solutions using modern cloud technologies to bridge research and real-world implementation.

Professional Experience

Research Stay 04/2024 – 08/2024
University of Colorado Colorado Springs (UCCS), Colorado, USA

- Conducting research in NLP and machine learning applications under the supervision of Prof. Jukal Kalita.

Graduate Assistant-II 11/2016 – 11/2017
Assistant Lecturer 11/2017 – 10/2018
Lecturer and Researcher 03/2021 – 08/2022
Wachemo University (WCU), Hosanna, Ethiopia

- Taught courses in information technology and computer science.
- Supervised student projects and research activities.
- Conducting research.

IT Expert (part-time) 03/2022 – 09/2022
Awash Bank, Wolaita Sodo, Ethiopia

- Managed and maintained IT systems, ensuring operational efficiency.
- Provided technical support and troubleshooting for banking software and hardware.

Junior Network Engineer (part-time) 04/2017 – 06/2021
Meba General ICT Solution Association, Hawassa, Ethiopia

- Maintained and administered computer networks.
- Designed IP addressing schemes; configured and supported network equipment, including routers, proxy servers, switches, WAN accelerators, DNS, and DHCP.
- Designed and implemented databases.

Lecturer (part-time) 01/2019 – 01/2020
Wolaita Sodo University (WSU), Wolaita Sodo, Ethiopia

- Delivered lectures and workshops on IT-related topics.
- Assisted in curriculum development and academic planning.

Education

PhD in Computer Science	2022 – 2025
Instituto Politécnico Nacional (IPN-CIC), Mexico City, Mexico	
Master of Science in Information Technology	2019 – 2021
Wolaita Sodo University (WSU), Wolaita Sodo, Ethiopia	
BSc in Information Technology	2013 – 2016
Arbaminch University (AMU), Arbaminch, Ethiopia	

Skills

- **Programming & Web:** Python, C++, TensorFlow, Keras, HuggingFace, NLTK
 C#, Java, JavaScript, SQL; HTML, CSS, PHP, Apache
- **Operating Systems:** Windows, Linux (Ubuntu), macOS
- **ML/NLP & Frameworks:** PyTorch, • **Version Control:** GitHub

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