



Mesay Gemeda Yigezu

PhD Student At The Instituto Politécnico Nacional (IPN) - Centro De Investigación En Computación (CIC) In Mexico City.

Contact

Address

07320, Mexico City Mexico

Phone

+525545015216

E-mail

messay.gemeda@gmail.com

LinkedIn

<https://www.linkedin.com/in/mesay-gemeda-9a9986112>

Twitter

https://twitter.com/Mesay_Gemeda

WWW

<https://mesay-gemeda.github.io/>

Mesay Gemeda Yigezu curriculum vitae

I am a PhD student at the Centro de Investigación en Computación (CIC), Instituto Politécnico Nacional (IPN) in Mexico City. My research interests primarily lie in the field of Natural Language Processing (NLP), with a specific focus on various topics including hate speech and online content verification (disinformation detection), language identification, machine translation, and text classification.

Currently, my research work revolves around the development of multilingual hate speech for low-resource languages. I am passionate about leveraging NLP technique, deep learning algorithms and transformer based architectures to tackle the challenges associated with identifying and combatting hate speech in diverse linguistic contexts.

Motivated individual with strong work ethic and working independently. Strong organizational and team collaboration skills with experience in improving processes.

Work History

2022-09 -
Current

PhD. Student

Instituto Politécnico Nacional (IPN) - Centro De Investigación En Computación (CIC), Mexico City

- Research interest in the field of Natural Language Processing (NLP), with a specific focus on various topics including hate speech and disinformation detection, Large language models for low resourced language, Language identification (LID) and other NLP fields.

2022-03 -
2023-08

IT Expert

Awash Banks, Sodo

- Configured hardware, devices, and software to set up work stations for employees.
- Patched software and installed new versions to eliminate security problems and protect data.
- Designing and installing network.

2017-03 -
2022-08

Lecturer

Wachemo University, Hosanna

- Designed and implemented various educational activities and programs to meet student needs.
- Mentored and advised students to explore career pathways based and amplify knowledge,

Skills

Languages:

English, Amharic (Native),

Wolaita (Native)

Coding: Python, C++, C#,

SQL, Java

Databases: MySQL, ORACLE

Web Dev: HTML, Apache

web server, CSS

Technologies: Pytorch,

Keras, git, HuggingFace,

NLTK

2019-01 -

2020-01

Lecturer (Part Time)

Wolaita Sodo University, Sodo

- Selected and designed lesson plans and curriculum to meet academic objectives.
- Evaluated and supervised student activities and performance levels to provide reports on academic progress.
- Assessed students' progress and provided feedback to enhance learning.

Education

2013-02 -

2016-06

Bachelor of Science: Information Technology

Arba Minch University - Arba Minch, Ethiopia

2019-02 -

2021-03

Master of Science: Information Technology

Wolaita Sodo University - Wolaita Sodo, Ethiopia

2022-09 -

Current

Ph.D.: Computer Science

Instituto Politécnico Nacional (IPN-CIC) - Mexico City, Mexico

Research Publication

- **Yigezu, M. G.**, Kolesnikova, O., Sidorov, G., & Gelbukh, A. (2023). Transformer-Based Hate Speech Detection for Multi-Class and Multi-Label Classification.
- **Mesay Gemeda Yigezu**, Atnafu Lambebo Tonja, Olga Kolesnikova, Moein Shahiki Tash, Grigori Sidorov, Alexander Gelbukh. 2022. "Word Level Language Identification in Code-mixed Kannada-English Texts using Deep Learning Approach." *Proceedings of the 19th International Conference on Natural Language Processing*

(ICON).

- **Yigezu, M. G.**, Bade, G. Y., Kolesnikova, O., Sidorov, G., & Gelbukh, A. (2023). Multilingual Hope Speech Detection using Machine Learning.
- **Mesay Gemedra Yigezu**, Michael Melese Woldeyohannis, Atnafu Lambebo Tonja. 2021. "Multilingual neural machine translation for low resourced languages: Ometo-english." *2021 International Conference on Information and Communication Technology for Development for Africa (ICT4DA)* .
- David Ifeoluwa Adelani et al. 2023. "MASAKHANEWS: NEWS TOPIC CLASSIFICATION FOR AFRICAN LANGUAGES." *AfricaNLP workshop at ICLR2023* .
- Kolesnikova, O., **Yigezu, M. G.**, Tonja, A. L., Woldeyohannis, M. M., Sidorov, G., & Gelbukh, A. (2023). Ginger Disease Detection Using a Computer Vision Pre-trained Model. In *Innovations in Machine and Deep Learning: Case Studies and Applications* (pp. 419-432). Cham: Springer Nature Switzerland.
- **Mesay Gemedra Yigezu**, Michael Melese Woldeyohannis, Atnafu Lambebo Tonja. 2021. "Early Ginger Disease Detection Using Deep Learning Approach." *Advances of Science and Technology: 9th EAI International Conference, ICASST 2021, Springer International Publishing, 2022*.
- Atnafu Lambebo Tonja, **Mesay Gemedra Yigezu**, Olga Kolesnikova, Moein Shahiki Tash, Grigori Sidorov, Alexander Gelbukh. 2022. "Transformer-based Model for Word Level Language Identification in Code-mixed Kannada-English Texts." *Proceedings of the 19th International Conference on Natural Language Processing (ICON)*.
- M. Shahiki Tash, Z. Ahani, A.I. Tonja, **M. Gemedra**, N. Hussain, O. Kolesnikova. 2022. "Word Level Language Identification in Code-mixed Kannada-English Texts using traditional machine learning algorithm." *Proceedings of the 19th International Conference on Natural Language Processing (ICON)*.
- Atnafu Lambebo Tonja, Michael Melese Woldeyohannis, **Mesay Gemedra Yigezu**. 2021. "A

parallel corpora for bi-directional neural machine translation for low resourced ethiopian languages." *International Conference on Information and Communication Technology for Development for Africa (ICT4DA)* .

In progress Publication

- Hate-BERT: Evaluating Domain Task Impact on Hate Speech Detection.
- Evaluating the effectiveness of hybrid features in fake news detection on social media.
- Utilizing Deep and Transfer Learning Approaches for Sentiment Analysis.
- Abusive Comment Detection using Deep Learning Approach.
- Bilingual Word-Level Language Identification for Omotic Languages.