

NUREDIN ALI

Pronouns: He/His

ali00530@umn.edu

[Website](#) ◇ [Google Scholar](#)

EDUCATION

University of Minnesota
PhD student; Computer Science
Advisor: [Stevie Chancellor \(PhD\)](#)

Aug 2022 - Present

Mekelle University
Bachelor of Science; Information Systems.

Sep 2016 - Dec 2020
GPA: 3.96/4.0 (Top 2%)

PUBLICATIONS

* refers to equal contribution

[Error Analysis of Tigrinya-English Machine Translation Systems \[Preprint\]](#)

Negais Haile*, **Nuredin Ali***, Asmelash Tekla

- Accepted at ICLR 2023 on AfricaNLP workshop.
- Under-review at Association for Computational Linguistics (**ACL 2023**).

[Machine Learning Models Evaluation and Feature Importance Analysis on Non Performing Loans Dataset](#)

Rufael Fekadu*, Anteneh Getachew*, Yishak Tadele*, **Nuredin Ali***, Israel Goytom
NeurIPS 2021 Workshop on Machine Learning for Development (**ML4D**)

[Banknote Recognition for Visually Impaired People \(Case of Ethiopian note\)](#)

Nuredin Ali

NeurIPS 2021 Workshop on Machine Learning for Development (**ML4D**)

[Exploring Transfer Learning on Face Recognition of Dark Skinned, Low Quality and Low Resource Face Data](#)

Nuredin Ali

NeurIPS 2020 at **Black in AI (BAI)** Workshop.

HONORS AND AWARDS

- | | |
|---|------|
| • College of Science and Engineering (CSE) 3 Year Fellowship , University of Minnesota. | 2022 |
| • 1st place winner of Blackathon. A hackathon organized by Black American researchers. | 2021 |
| • Selected to Engineering For Developing Communities . (1.6% acceptance rate) | 2019 |
| • Top 10 Best Students of the year award (High School). (1.5% acceptance rate) | 2015 |

RESEARCH INTERNSHIPS

Distributed AI Research (DAIR)

Summer 2023

PhD Research Intern

Mentors: [Timnit Gebbru \(PhD\)](#), [Alex Hanna \(PhD\)](#), [Dylan Baker](#)

- I Will work with interdisciplinary team of social scientists, computer scientists, journalists on analysing **large social media data** to understand social media harms on societies.

INDUSRTY EXPERIENCE

Chapa

June 2021 - June 2022

Machine Learning, Researcher

Mentor: [Israel Goytom](#)

- Worked on a research project to mitigate the non-performing loans of private banks in Ethiopia using Machine Learning.
- Prepared a report by analysing transactions and tweets for the donation platform of one of the grandest projects of the country, the Great Ethiopian Renaissance Dam (GERD).
- We worked with Python libraries such as Scikit learn, used Tensorflow/Keras and Pytorch frame works, with a team of three researchers.
- Mentored University interns on the non-performing loans research project.

Lesan.ai

Summer 2019, 2020

Machine Learning, Intern

Mentor: [Asmelash Teka \(PhD\)](#)

- Worked on model evaluation. After extensive evaluation of the model I found that the translation model has domain specific errors.
- Worked on domain adaptation of the translation model. Specially, solving the models' poor performance on translating sports news.
- Implemented Python Scrapy for scraping data.
- Scraped data of different languages from web pages for training and evaluating the model.

TEACHING EXPERIENCE

IT Essentials, ICT Agency of Setit Humera

July 2018 - Aug 2018

Lecturer

- Taught a class of 40 students:
 - In this course, with the collaboration of ICT Agency of Setit Humera, I taught selected high school and college students of the city.
 - Mainly targeted on giving the essential IT skills which introduced the students to computer programming.

ACADEMIC SERVICE

- ICLR Tiny Papers a DEI initiative, Serving as Area Chair (AC). 2023
- Development Work Group at Mechanism Design for Social Good (MD4SG), Co-organizer. 2023
- ICLR AfricaNLP Workshop, Reviewer. 2023
- ICLR Machine Learning for Global Health (MLGH) Workshop, Reviewer. 2023

UNIVERSITY SERVICE

Head of ICT department, School association, Mekelle University

Sep 2019 - Feb 2020

- **Led** and **organized** a group of students to provide trending IT fields like Artificial Intelligence and Machine Learning.

- Communicated with the association peer-leaders to provide lectures on IT skills, to provide IT support to students, managed different tasks of the association.

Engineering for Developing Communities, Mekelle

July 2019 - Aug 2019

Summer Research Program

International Summer Program offered in collaboration of Technion University of Israel and Mekelle Institute of Technology (MIT).

- A holistic program to understand, brainstorm, analyze, and implement problem solving community projects.
- Developed project concepts and maintain optimal workflow by communicating with community.
- Worked with colleagues to design projects by cooperating with different organizations to support our community.

Member of University Parliament

Sep 2017 - Dec 2020

Students Representative of Information Systems Department

- Closely supervised the facilities of around 5000 students of the Main campus.
- Closely supervised the University Management such as Head of School of Computing, Lecturers of the Computer Science Department and others.
- Held monthly meeting to discuss on monthly reports and how the facilities such as food, libraries, and classes are being provided to our students.

VOLUNTEER ACTIVITIES

Database coordinator and fundraiser

Oct 2019 - Sep 2020

Fkreseb Charitable Organization

Cooperating and registering of fresh students through E-student

Sep 2019 - Oct 2019

Mekelle University

Cafeteria Committee (For two months in WAR time)

Oct 2019 - Dec 2020

Main Campus, Mekelle University

Served as a member of Peace Forum

Sep 2019 - Dec 2020

Mekelle University

Served as a member of anti-corruption office

Sep 2019 - Dec 2020

Mekelle University

Languages and Hobbies:

- Tigrinya (Native), English (Proficient), Arabic (Intermediate), Amharic (Fluent).
- Play Football (soccer), Reading, Running.