

NUREDIN ALI

Pronouns: He/His

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[Website](#) ◇ [Google Scholar](#)

EDUCATION

University of Minnesota
PhD student; Computer Science.

August 2022 - present

Mekelle University
Bachelor of Science; Information Systems.

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

PUBLICATIONS

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

Negais Haile*, **Nuredin Ali***, Asmelash Teka (*Equal Contribution)

- 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 (*Equal Contribution)
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

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|------|--|
| 2022 | University of Minnesota College of Science and Engineering (CSE) Fellowship. |
| 2020 | 1st place winner of Blackathon. A hackathon organized by Black American researchers. |
| 2019 | Selected to Engineering for developing communities . (1.6% acceptance rate) |
| 2015 | Top 10 Best Students of the year award (High School). (1.5% acceptance rate) |

RESEARCH INTERNSHIPS

Distributed AI Research (DAIR)
PhD Research Intern

Summer 2023

- 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

- 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 a the non-performing loans research project.
- Currently, exploring machine learning techniques for credit scoring and fraud detection.

Lesan.ai

Summer '19, '20

Machine Learning, Intern

- 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-August 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

- 2023 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.

UNIVERSITY SERVICE

Head of ICT department, School association, Mekelle University

2019 - 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 - August 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.
- Currently, developing a community project.

Member of University Parliament

September 2017 - December 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 school of computing 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

Served as a volunteer In Advances in Neural Information Processing Systems (NeurIPS '20, '21)

Database coordinator and fundraiser

October 2019 - September 2020

Fkreseb Charitable Organization

Cooperating and registering of fresh students through E-student

September - October 2019

Mekelle University

Cafeteria Committee (For two months in WAR time)

October 2019 - December 2020

Main Campus, Mekelle University

Served as a member of Peace Forum

September 2019 - December 2020

Mekelle University

Served as a member of anti-corruption office

September 2019 - December 2020

Mekelle University

Languages and Hobbies:

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