NUREDIN ALI

Pronouns: He/His

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Website ◇ Google Scholar

EDUCATION

University of Minnesota   August 2022 - present
PhD student; Computer Science
Advisor: Stevie Chancellor (PhD)

Mekelle University   2016 - 2020
Bachelor of Science; Information Systems.   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 Teka

- 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

2022   College of Science and Engineering (CSE) **3 Year Fellowship**, University of Minnesota.

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)   Summer 2023
PhD Research Intern
Mentors: Timnit Gebru (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 a the non-performing loans research project.

- Currently, exploring machine learning techniques for credit scoring and fraud detection.

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-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.