

Thura Aung

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Portfolio: sites.google.com/view/thura-aung/ * *Date of birth:* 01-06-2001

Profile

Lab member of Language Understanding Lab., Myanmar. Participating in several open-source AI projects. Interested in the research area of Computer Science (CS), Natural Language Processing (NLP), and Linguistics. Enthusiastic, responsible, and committed to working on time with dedication.

Education

Bachelor of Engineering

Information Technology

1st Year GPA: **3.85/5.0**

2nd Year GPA: **4.57/5.0**

Discontinued after Covid-19 Pandemic

Co-founder at IT Club, Debater at Debate Club.

Technological University (Kyaukse)

2017 - 2019

High School

High School Diploma

Matriculation Exam total marks: **451/600**.

Distinctions in **English** and **Mathematics**

Specialised in Maths, Physics, Chemistry, and Biology.

The Conqueror Academy of Education

2014 - 2017

Experiences

Google Developer Group Yangon

Volunteer Math Mentor

April 2023 - Present

Remote, Part-time

- Briefing and mentoring Coursera courses to the students.
- Discuss the real-world application of Mathematical methods.
- **Technologies:** Python, Numpy, Scipy.
- **Soft Skills:** Presentation, Mentoring skills.

Language Understanding Laboratory

Research Assistant

Jan 2022 - Present

Remote, Part-time

- Contribute to Data Collection for low-resource NLP tasks.
- Corpus Building for Myanmar Sentence Tokenization, OCR.
- Currently active in OCR and ASR research teams.
- **Technologies:** Python, Perl, Scipy, Scikit-learn, Tensorflow, Marian, Moses, Kaldi, Tesseract.
- **Soft Skills:** Research, Teamwork, Time Management, Communication, Academic Writing skills.

Microsoft Learn Student Ambassadors

Beta Student Ambassador

Sept 2021 - Present

Remote, Part-time

- [\[Certificate\]](#) [\[Profile\]](#)
- Promoted from Alpha Student Ambassador (*Jan 2021 - Sept 2021.*)
- Organize and host events as a student ambassador
- Mentor other students and student ambassadors
- **Soft Skills:** Community Building, Cooperation, Negotiation, Communication, Organization skills.

Omdena
Lead ML Engineer

Oct 2021 - Jan 2022
Remote, Seasonal

- [\[Project\]](#) [\[Certificate\]](#)
- Lead a team of 10 ML Engineers for Face Detection for feature extraction.
- Cooperated and Brainstormed with other task leaders for the system design.
- Reported to the Product Manager directly.
- Image Classification, Face Detection, Active Learning.
- **Technologies:** Bash, Python, Tensorflow, OpenCV, Scikit-learn.
- **Soft Skills:** Community Building, Cooperation, Communication, Organization skills.

Thate Pan Hub
AI Curriculum Developer

June 2021 - Sept 2021
Remote, Part-time

- [\[Website\]](#) [\[Certificate\]](#)
- Co-designed AI Curriculum for Kids and Teenagers.
- Trained volunteer teachers with the designed curriculum.
- **Soft Skills:** Cooperation, Curriculum development, and Communication skills.

Alex Snow School
Volunteer Mentor

April 2020 - Jan 2021
Remote, Part-time

- Briefing and mentoring Coursera courses to the students.
- Mentoring and assisting in the assignments.
- **Soft Skills:** Classroom management, Mentoring, and Presentation skills.

Research Experiences

Workshop Presentation

- **Thura Aung**, Ye Kyaw Thu and Zar Zar Hlaing, mySentence: Sentence Segmentation for Myanmar Language using Neural Machine Translation Techniques”, 4th joint Workshop on NLP/AI R&D, iSAI-NLP-AIOT 2022, Chiang Mai, Thailand, 5 November 2022. [\[Powerpoint\]](#)

Working Papers

- mySentence: Sentence Segmentation for Myanmar Language using Neural Machine Translation Approach (joint with Ye Kyaw Thu and Zar Zar Hlaing, **UNDER REVIEW**).
- Neural Sequence Labeling based Sentence Segmentation for Myanmar Language (joint with Ye Kyaw Thu and Thepchai Supnithi, **UNDER REVIEW**).

Teaching Experiences

- Thura Aung, “**Introduction to Computer Vision using Python**”, Youth Career Institute, Online, December 2021 - January 2022. [\[Materials\]](#)
- Thura Aung, “**Introduction to Vector Spaces**”, Alex Snow School, Online, 23 December 2020. [\[Youtube\]](#)
- Thura Aung, Maung Noor Islam, “**AI in society and Microsoft Azure Cognitive Services**”, Microsoft Learn Student Ambassadors, Online, 18 September 2021. [\[Youtube\]](#)
- Thura Aung, “**Big Brother is watching you: Ethical Problems of Computer Vision Technologies**”, Simbolo IT School, Online, 7 July 2021. [\[Youtube\]](#)
- Thura Aung, “**Walkthrough on Intermediate Machine Learning Kaggle Courses**”, Google Developers Group, Yangon, Online, 25, June 2022. [\[Youtube\]](#)

Training Certificates

1. Machine Learning Engineer Nanodegree, Udacity [[Certificate](#)] [[Github](#)]
2. Introduction to Responsible AI Algorithm Design, LinkedIn [[Certificate](#)]
3. Machine Learning, Stanford Online Coursera [[Certificate](#)] (with Financial aid)
4. Maths for Machine Learning, Imperial College London Coursera [[Certificate](#)] (with Financial aid)
5. Deep Learning Specialization, DeepLearning.AI [[Certificate](#)] (with Financial aid)
6. Tensorflow Developer Specialization, DeepLearning.AI [[Certificate](#)] (with Financial aid)
7. Machine Translation, Karlsruhe Institute of Technology (KIT) [[Certificate](#)]

Selected Projects

1. mySentence: Sentence Segmentation Corpus and models for Myanmar language [[Github](#)]
2. Covid-19 Recognition with Chest X-ray Images using ML and DL Methods [[Github](#)]
3. ConvNet-based Drowsiness Detection and Alert System [[Github](#)]
4. Synthetic Myanmar-Thai parallel corpus using Google Translate [[Github](#)]
5. myTypo: Typographic Error Simulator for Myanmar language [[Github](#)]
6. mySpellCorrect: Statistical Word Spelling Correction for Myanmar language [[Github](#)]
7. Retrieval-based Covid-19 TF-IDF Bilingual Chatbot [[Github](#)]
8. mmCRFSeg: CRF-based Word Segmentation tool for Myanmar language [[Github](#)]
9. Burmese Handwritten Digit Recognition using ConvNets [[Github](#)]
10. Automatic Myanmar News Classification System [[Github](#)]
11. Fake News Classification using Traditional Machine Learning models [[Github](#)]
12. Ceretai: Using Computer Vision to Detect Ethnicity in Videos and Improve Ethnicity Awareness
13. Human Detection using HOG Features trained on SVM [[Github](#)]

Skills

Programming Languages/Tools	C++, Java, Python, Perl, L ^A T _E X, Tensorflow, OpenCV, Marian, Moses, Kaldi, Tesseract.
Interpersonal Skills	Community Building, Cooperation, Negotiation, Communication, Organization skills, Research, Teamwork, Time Management, Academic Writing skills.

Language Proficiencies

Burmese	Native Language
English	Duolingo: Overall 120/160 [Report], EF SET: 72/100 C2-Proficient [Report]

Achievements

Championship Winner	Second Campus Debate Tournament, TU(Kyaukse), 2019. [Photo]
Best Project Award	Simbolo AI Project Challenge. [Certificate]

References

Prof. Ye Kyaw Thu

Lab. Leader, Language Understanding Lab., Myanmar.

Visiting Professor, NECTEC, Thailand.

Email: yktnlp@gmail.com

Homepage: <https://sites.google.com/site/yekyawthunlp/>

Prof. Khaing Myat Mon

Professor and Head

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