

RABIUL AWAL

✉ r.awal@usask.ca | 🌐 rabiul.me | [in rabiulawal](https://www.linkedin.com/in/rabiulawal) | [🐙 rabiulcste](https://github.com/rabiulcste) | [🐦 _rabiulawal](https://twitter.com/rabiulawal)

RESEARCH INTERESTS

Transfer Learning, Deep Learning, Low-resource and Social NLP

EDUCATION

Master of Science | Computer Science

University of Saskatchewan

Jan 2021 –

Saskatoon, Canada

Thesis topic : Multilingual Social NLP, transfer learning and fast adaptation *not fixed yet

Courses: Advanced Algorithms, Topics in Learning and Intelligent Systems, Special Topics: Machine Learning in

Low-Resource Natural Language Processing Tasks

Bachelor of Science | Computer Science

Noakhali Science and Technology University

May 2014 – Dec 2018

Noakhali, Bangladesh

WORK EXPERIENCE

Research Assistant

Department of Linguistics, University of Saskatchewan

Spring 2021

Saskatoon, Canada

- Worked on a forensic project on hate speech analysis

Software Engineer

Goava Sales Intelligence AB (*startup*)

Jan 2019 – Dec 2020

Dhaka, Bangladesh

- Big data analytics, sales intelligence, entity extraction, large-scale crawling, structured data storing from web, serverless backend, feature development (API seving)

PEER-REVIEWED PAPERS

- AngryBERT: Joint Learning Target and Emotion for Hate Speech Detection, by **Md Rabiul AWAL**, Rui CAO, Roy Ka-Wei LEE and Sandra MITROVIC, *25th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD'21), Delhi, India, 05/2021*.
- I miss you babe: Analyzing Emotion Dynamics During COVID-19 Pandemic, by Hui Xian Lynnette NG, Roy Ka-Wei LEE and **Md Rabiul AWAL**, *4th Workshop on NLP and CSS (NLPCSS'20), Online, 11/2020*.
- On Analyzing Annotation Consistency in Online Abusive Behavior Datasets, by **Md Rabiul AWAL**, Rui CAO, Roy Ka-Wei LEE and Sandra MITROVIC, *14th International Conference on Web and Social Media - Data Challenge (ICWSM-DC'20), Atlanta, Georgia, U.S, 06/2020*.

PRE-PRINT & UNDER REVIEW

- On Analyzing Antisocial Behaviors Amid COVID-19 Pandemic, by **Md Rabiul AWAL**, Rui CAO, Sandra MITROVIC and Roy Ka-Wei LEE, *arxiv-2007.10712*.
- Model-Agnostic Meta-Learning for Multilingual Hate Speech Detection, by **Md Rabiul AWAL**, Eshaan TANWAR, Tanmay GARG, Roy Ka-Wei LEE and Tanmoy CHAKRABORTY under review

RESEARCH PROJECTS (IN PROGRESS)

Hate Against Asian Communities During COVID-19: A Sociolinguistics Study

colab w/ linguistics

Collaborative project on hate speech analysis

Efficient Multi-task Learning with Multilingual Pre-trained Sentence Encoders

course work

Exploring conditionally adaptive multilingual multi-task learning on low-resource target tasks

Cross-domain Multilingual Misinformation Detection

colab sutd

New dataset + structure learning for early multilingual rumor detection

Commonsense Knowledge for Implicit Hate Speech Detection?

colab LCS2, IIIT-Delhi

Detecting latent hate speech

HONORS, AWARDS & MISC

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|---|------|
| • Scholarship award for virtual registration at the MRL Workshop, EMNLP21 | 2021 |
| • ICLR 2021 Registration - Financial Assistance Grant | 2021 |
| • Graduate Teaching Fellowship @UofS | 2021 |
| • 1st place at <i>NSTU Intra University Programming Contest</i> | 2016 |
| • 17th place at <i>DIU ACM ICPC Dhaka Region World Finals Warmup</i> | 2016 |
| • Honorable mention at <i>ACM-ICPC Asia Dhaka Regional Contest</i> | 2016 |
| • 1st place at <i>CSTE Carnival Programming Contest NSTU</i> | 2015 |
| • 3rd place at <i>CoU Regional Programming Contest (CoURPC)</i> | 2015 |

TEACHING EXPERIENCE

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|---|---|
| Graduate Teaching Assistant
Department of Computer Science, University of Saskatchewan | Jan 2021 –
Saskatoon, Canada |
| <ul style="list-style-type: none">• CMPT 317 Introduction to Artificial Intelligence (<i>Winter22</i>)• CMPT 140.3 Introduction to Creative Computing (<i>Fall 21</i>)• CMPT 280.3 Intermediate Data Structures and Algorithms (<i>Winter 21</i>) | |
| Teaching Assistant
Noakhali Science & Technology University | Jun 2017 – Jun 2018
Noakhali, Bangladesh |
| <ul style="list-style-type: none">• CSTE 3110 Microprocessor, Micro-controller and Interfacing Lab (<i>2017 & 2018 session</i>)• Course material, lecture design, exam paper and lab test | |

LEADERSHIP & SERVICES

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| Volunteer: ICML21, EACL21, ICLR21, NAACL21 | |
| Reviewer: SIGKDD21 | |
| MSc Representative at Computer Science Graduate Council @UofS | 2021– |
| Founder at NLP Reading Group (Dhaka) | 2021– |
| A grass-root initiatives for fostering ML/AI research in Bangladesh. | |
| <ul style="list-style-type: none">• Organizing a public crowd-source reading course for Fall 21, help people to try some research project [web page]• NLP research reading for Summer 21 [course page] | |
| Instructor, Intro ML course for a group of undergrad students
8 weeks long, introduction to machine learning [syllabus] | Summer 2020
Virtual / Noakhali |
| President, CSTE Club @NSTU
Helped to grow a programming community of 150+ people, undergrad | 2015 – 2018
Noakhali, Bangladesh |

SKILLS

ML/AI: Tensorflow, Pytorch, Keras
Bigdata: Hadoop, Nutch, Elasticsearch
Packages: Flask, (NumPy, SciPy, Matplotlib, Pandas)
Others: Git, AWS, Docker, Linux
Languages: C, C++, Python, Java, Javascript, MySQL