

RABIUL AWAL

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RESEARCH INTERESTS

Low-resource & Social NLP, Representation Learning (*transfer learning, meta-learning*), Efficient ML

EDUCATION

Master of Science | Computer Science

Jan 2021 –

University of Saskatchewan / Overall grade 88%

Saskatoon, Canada

Thesis topic: Transfer Learning for Multilingual Social Value Tasks *not fixed yet

Courses: Advanced Algorithms, Learning and Intelligent Systems, Machine Learning in Low-Resource NLP Tasks

Bachelor of Science | Computer Science

May 2014 – Dec 2018

Noakhali Science and Technology University / CGPA 3.19

Noakhali, Bangladesh

WORK EXPERIENCE

Research Intern

Mar 2022 –

MITACS Accelerate Program, Living Sky Technologies

Saskatoon, Canada

- Working on efficient long document summarization

Research Student / Advisor: Roy Ka-Wei Lee

Jun 2020 –

SocialAI.Studio Lab, Singapore University of Technology & Design

Singapore

- Research in low-resource NLP for hate speech and rumor detection
- Organizing reading groups, workshops and other lab efforts

Software Engineer

Jan 2019 – Dec 2020

Goava Sales Intelligence AB (*startup*)

Dhaka, Bangladesh

- Big data analytics & sales intelligence, entity extraction, large-scale crawling and storage, API development

PUBLICATION

- 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.
- 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 at KDD22
- MUSCAT: Multilingual Rumor Verification in Social Media Conversations under review at COLING22

WORKS IN PROGRESS

Few-shot Predict and Explain: An Unified View of Implicit Hate Speech

colab LCS2, IIIT-Delhi

Predict and explain coded hate speech with text-to-text (T5) model

COURSE PROJECTS

- CS820 - Parameter-efficient Multi-task Learning with Multilingual Pre-trained Encoders [pdf](#)
- CS898 - Domain Adaptation as a Problem of Bayesian Inference in Graphical Models [pdf](#)
- CS810 - Finding Relevant Points for Nearest Neighbor Classification

AWARDS & MISC

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| • Talent Bursary at AMII AI Week (Edmonton, Canada) | 2022 |
| • 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 NSTU Intra University Programming Contest | 2016 |
| • 17th place at DIU ACM ICPC Dhaka Region World Finals Warmup | 2016 |
| • Honorable mention at ACM-ICPC Asia Dhaka Regional Contest | 2016 |
| • 1st place at CSTE Carnival Programming Contest NSTU | 2015 |
| • 3rd place at CoU Regional Programming Contest (CoURPC) | 2015 |

TEACHING EXPERIENCE

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|---|---|
| Graduate Teaching Assistant
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
Computer Science, 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>) | |

LEADERSHIP & SERVICES

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| Volunteer: ICML21, EACL21, ICLR21, NAACL21 | |
| Reviewer: SIGKDD21 + many reviewing assignments through lab | |
| MSc Representative - Computer Science Graduate Council @UofS
Helped in hosting social events for grad students | 2021–2022 |
| Founder – NLP Dhaka
A grass-root initiatives for fostering ML/NLP research in Bangladesh | 2021– |
| <ul style="list-style-type: none">• Organizing crowd-source reading sessions to spread AI research in local community• Support people to collaborate on research projects, details on website | |
| President – CSTE Club @NSTU
Helped to grow a computing club of 150+ people, training in competitive programming | 2015 – 2018
Noakhali, Bangladesh |

SKILLS

ML/AI: Pytorch, Tensorflow, Huggingface
Bigdata: Hadoop, Nutch, Elasticsearch
Others: Git, AWS, Docker, Linux
Languages: C, C++, Python, Java, Javascript, MySQL