RABIUL AWAL

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RESEARCH INTERESTS

Transfer Learning, Domain Adaptation, Low-resource and Social NLP

EDUCATION

Master of Science | **Computer Science**   Jan. 2021 –

University of Saskatchewan   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**   May. 2014 – Dec 2018

Noakhali Science and Technology University   Noakhali, Bangladesh

WORK EXPERIENCE

Research Assistant   Spring 2021

Department of Linguistics, University of Saskatchewan   Saskatoon, Canada

- Worked on a forensic project on hate speech analysis

Software Engineer   Jan 2019 – Dec 2020

Goava Sales Intelligence AB *(startup)*   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

Explainable Implicit Hate Speech Detection   *colab LCS2, IIIT-Delhi*

Detecting latent hate speech

HONORS AND AWARDS

- 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

Graduate Teaching Assistant   Jan 2021 –

Department of Computer Science, University of Saskatchewan   Saskatoon, Canada
- CMPT 280.3 Intermediate Data Structures and Algorithms (Winter 21)
- CMPT 140.3 Introduction to Creative Computing (Fall 21)

Teaching Assistant   Jun 2017 – Jun 2018

Noakhali Sceince & Technology University   Noakhali, Bangladesh
- CSTE 3110 Microprocessor, Microcontroller and Interfacing Lab (2017 & 2018 session)
- Course material, lecture design, exam paper and lab test

LEADERSHIP & SERVICES

Volunteer: ICML21, EACL21, ICLR21, NAACL21
Reviewer: SIGKDD21

MSc Representative at Computer Science Graduate Council @UofS   2021
Founder at NLP Reading Group (Dhaka)   2021
- An advance public reading course for Fall 21 *[web page]*
- Research reading, Summer 21 *[course page]*

Instructor, Intro ML course for a group of undergrad students   Summer 2020

8 weeks long, introduction to machine learning *[syllabus]*   Virtual / Noakhali

President, CSTE Club @NSTU   2015 – 2018

Helped to grow a programming community of 150+ people, undergrad   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