

M SAIFUL BARI

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Ph.D. Student, Nanyang Technological University

sbmaruf.github.io

EDUCATION

Nanyang Technological University

Doctor of Philosophy (Ph.D.)

Natural Language Processing

Computer Science and Engineering

2019 - Present

CGPA: 4.63/5.0

Islamic University of Technology

Bachelor of Science (BSc.)

Computer Science and Engineering

2012-2016

CGPA: 3.65/4.0

SKILLS

Computer Languages

Python, C/C++

Tools & Library

Pytorch, DeepSpeed, fairseq, Huggingface

Problem Solving

Deep Learning, Algorithms & Data Structure

HONORS & AWARDS

Scholarship

NTU Research Scholarship, Fully funded Ph.D. scholarship for 4 years.

2019

Scholarship

OIC Scholarship for undergraduate study, Islamic University of Technology

2012

Champion

IUT Computer Programming Contest

2014

Honorable Mention

Human Expedition on Mars Timeline 2018

2014

Champion

IUT Computer Programming Contest

2015

2nd/100 in Inter University Programming Contest

Daffodill International University ACM ICPC world finals warmup contest 2016

2016

6th/100+ in Inter University Programming Contest

NSU Cybnernauts National Programming Contest

2016

EXPERIENCE

Applied Scientist Intern (Part Time)

Amazon Web Service

July 2021 - Jan 2022

- Working on prompt tuning for multi-lingual models.

Applied Scientist Intern

Amazon Web Service

Aug 2020 - Oct 2020

- Collaborated with Amazon Lex team.
- Worked on Cross-lingual Few-shot Adaptation.

Research Assistant

Sep 2017 - Aug 2018

Nanyang Technological University

- Research on MT, NER and Adversarial Training.
- Maintain internal GPU servers
- Maintain group web-site

Software Engineering Intern

Sep 2018 - Jan 2019

Aubichol IT Limited

- Worked on an early startup where the key responsibility was to design the architecture of sports analytic and Translation System.

Lecturer

June 2017 - Sep 2017

Southeast University

- Teaching undergraduate CS student. Subject taught: * Introduction to C * Algorithms

Software Engineering Intern

Nov 2015 - Dec 2015

XeonBD

- The course of the internship goes through Cloud Computing and kernel virtualization.

Competitive Programmer

Nov 2012 - Nov 2016

Islamic University of Technology

- Solved different kinds of algorithmic and data structure based problem. Solve problem through codeforces, topcoder, lightoj, uva, codechef, hackerrank, projecteuler, coci, usaco. Solved around **2000 problems** in various online judge.

Competitive Programming Trainer

June 2014 - Nov 2016

- Taught Competitive Programming in different Universities in Bangladesh.
 - Islamic University of Technology
 - Khulna University of Engineering and Technology
 - East West University
 - Dhaka University of Engineering and Technology

PUBLICATION

1. Teven Le Scao, Thomas Wang, Daniel Hesslow, Lucile Saulnier, Stas Bekman, **M Saiful Bari**, Stella Biderman, Hady Elsahar, Jason Phang, Ofir Press, Colin Raffel, Victor Sanh, Sheng Shen, Lintang Sutawika, Jaesung Tae, Zheng Xin Yong, Julien Launay, and Iz Beltagy. **What Language Model to Train if You Have One Million GPU Hours?** In *Challenges & Perspectives in Creating Large Language Models, ACL'22 Workshop*, 2022
2. Stephen H. Bach, Victor Sanh, Zheng-Xin Yong, Albert Webson, Colin Raffel, Nihal V. Nayak, Abheesht Sharma, Taewoon Kim, **M Saiful Bari**, Thibault Fevry, Zaid Alyafeai, Manan Dey, Andrea Santilli, Zhiqing Sun, Srulik Ben-David, Canwen Xu, Gunjan Chhablani, Han Wang, Jason Alan Fries, Maged S. Al-shaibani, Shanya Sharma, Urmish Thakker, Khalid Almubarak, Xiangru Tang, Dragomir Radev, Mike Tian-Jian Jiang, and Alexander M. Rush. **PromptSource: An Integrated Development Environment and Repository for Natural Language Prompts.** In *Meeting of the Association for Computational Linguistics (ACL) Demonstration*, 2022
3. Victor Sanh, Albert Webson, Colin Raffel, Stephen Bach, Lintang Sutawika, Zaid Alyafeai, Antoine Chaffin, Arnaud Stiegler, Arun Raja, Manan Dey, **M Saiful Bari**, Canwen Xu, Urmish Thakker, Shanya Sharma, Eliza Szczechla, Taewoon Kim, Gunjan Chhablani, Nihal Nayak, Debajyoti Datta, Jonathan Chang, Mike Tian-Jian Jiang, Han Wang, Matteo Manica, Sheng Shen, Zheng Xin Yong, Harshit Pandey, Rachel Bawden, Thomas Wang, Trishala Neeraj, Jos Rozen, Abheesht Sharma, Andrea Santilli, Thibault Fevry, Jason Alan Fries, Ryan Teehan, Teven Le Scao, Stella Biderman, Leo

- Gao, Thomas Wolf, and Alexander M Rush. **Multitask Prompted Training Enables Zero-Shot Task Generalization**. In *International Conference on Learning Representations, ICLR*, 2022
4. **Bari, M Saiful**, Batool Haider, and Saab Mansour. **Nearest Neighbour Few-Shot Learning for Cross-lingual Classification**. In *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*, pages 1745–1753, Online and Punta Cana, Dominican Republic, November 2021. Association for Computational Linguistics
 5. **Bari, M Saiful**, Tasnim Mohiuddin, and Shafiq Joty. **UXLA: A Robust Unsupervised Data Augmentation Framework for Zero-Resource Cross-Lingual NLP**. In *Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing, ACL (Volume 1: Long Papers)*, pages 1978–1992, Online, August 2021. Association for Computational Linguistics
 6. Tasnim Mohiuddin, **M Saiful Bari**, and Shafiq Joty. **AugVic: Exploiting BiText Vicinity for Low-Resource NMT**. In *Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021*, Online, 2021. Association for Computational Linguistics
 7. Tasnim Mohiuddin, **M. Saiful Bari**, and Shafiq R. Joty. **LNMap: Departures from Isomorphic Assumption in Bilingual Lexicon Induction Through Non-Linear Mapping in Latent Space**. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing*, Virtual, November 2020
 8. **M Saiful Bari**, Shafiq Joty, and Prathyusha Jwalapuram. **Zero-Resource Cross-Lingual Named Entity Recognition**. In *Proceedings of the 34th AAAI Conference on Artificial Intelligence, AAAI '20*, New York, USA, 2020. AAAI
 9. Xiang Lin, Shafiq Joty, Prathyusha Jwalapuram, and **M Saiful Bari**. **A Unified Linear-Time Framework for Sentence-Level Discourse Parsing**. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, ACL '19*, Florence, Italy, 2019. ACL
 10. **M Saiful Bari**. *Regression for Data Analytics*, chapter 2, pages 33–54. CRC Press, Boca Raton, September 2018. (in book: Data Analytics: Concepts, Techniques and Applications)

PROJECTS

★ Deep learning :: *Malay English Machine Translation System*

Details can be found here, <https://sbmaruf.github.io/project/mt-system/>

★ Deep learning :: *Named Entity Recognition System*

The details can be found here, <https://github.com/sbmaruf/named-entity-recognition>

★ Machine learning system :: *A CBIR System*

Details of the project can be found here, <http://103.82.172.44:8080/xmlui/handle/123456789/93>

★ Deep learning :: *Zero-Resource Cross-lingual Named Entity Recognition*

Details of the project can be found here, <https://github.com/ntunlp/Zero-Shot-Cross-Lingual-NER>