# Mohammed Saidul Islam

M.Sc. Student · Computer Science

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## Education

**York University**                                                     *Toronto, Canada*
Masters in Computer Science                                     *September 2023 - present*
- Advisor: Dr. Enamul Hoque Prince

**Islamic University of Technology**                         *Gazipur, Bangladesh*
B.Sc. in Computer Science and Engineering          *January 2016 - December 2019*
- Advisor: Dr. Abu Raihan Mostofa Kamal

## Professional Experience

2023-2024   **Graduate Teaching Assistant & Graduate Research Assistant**, Department of EECS, York University
2021-2023   **Lecturer**, Department of CSE, Islamic University of Technology
2018-2019   **Undergraduate Research Assistant**, Department of CSE, Islamic University of Technology

## Publications

### Conference Proceedings

**Mohammed Saidul Islam**, Md Tahmid Rahman Laskar, Md Rizwan Parvez, Enamul Hoque, and Shafiq Joty. "DataNarrative: Automated Data-Driven Storytelling with Visualizations and Texts." *arXiv preprint arXiv:2408.05346.*
***Accepted at EMNLP 2024 Main***

**Mohammed Saidul Islam**, Raian Rahman, Ahmed Masry, Md Tahmid Rahman Laskar, Mir Tafseer Nayeem, and Enamul Hoque. "Are Large Vision Language Models up to the Challenge of Chart Comprehension and Reasoning? An Extensive Investigation into the Capabilities and Limitations of LVLMs." *arXiv preprint arXiv:2406.00257 (2023).*
***Accepted at EMNLP 2024 Findings***

Kabir, Mohsinul*, **Mohammed Saidul Islam***, Md Tahmid Rahman Laskar, Mir Tafseer Nayeem, M. Saiful Bari, and Enamul Hoque. "Benllmeval: A comprehensive evaluation into the potentials and pitfalls of large language models on Bengali nlp." *2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation.*
****Equal Contribution First Author***

Rahman, M. M.*, **Islam, M. S.***, Laskar, M. T. R., Hossain, M. A., & Kamal, A. R. M. (2023). "Multihop Factual Claim Verification Using Natural Language Prompts." *Proceedings of the Canadian Conference on Artificial Intelligence, 2023.*
****Equal Contribution First Author***

Ekram, Syed Mohammed Sartaj, Adham Arik Rahman, Md Sajid Altaf, **Mohammed Saidul Islam**, Mehrab Mustafy Rahman, Md Mezbaur Rahman, Md Azam Hossain, and Abu Raihan Mostofa Kamal. "BanglaRQA: A Benchmark Dataset for Under-resourced Bangla Language Reading Comprehension-based Question Answering with Diverse Question-Answer Types." *In Findings of the Association for Computational Linguistics: EMNLP 2022, pp. 2518-2532. 2022.*

Rahman, Md Mezbaur, Saadman Malik, **Mohammed Saidul Islam**, Fardin Saad, Md Azam Hossain, and Abu Raihan Mostofa Kamal. "An Efficient Approach to Automatic Tag Prediction from Movie Plot Synopses using Transformer-based Language Model." *In 2022 25th International Conference on Computer and Information Technology (ICCIT), pp. 501-505. IEEE, 2022.*

Rabib, Hasnain Karim, Mostafa Galib, Takia Mosharref Nobo, Tanjila Alam Sathi, **Mohammed Saidul Islam**, Abu Raihan Mostofa Kamal, and Md Azam Hossain. "Gender-based Cyberbullying Detection for Under-resourced Bangla Language." *In 2022 12th International Conference on Electrical and Computer Engineering (ICECE), pp. 104-107. IEEE, 2022.*

**Islam, Mohammed Saidul**, Iqram Hussain, Md Mezbaur Rahman, Se Jin Park, and Md Azam Hossain. "Explainable artificial intelligence model for stroke prediction using EEG signal." *Sensors 22, no. 24 (2022): 9859.*

Hoque, E., and **Islam, M. S.** (2024, September). Natural Language Generation for Visualizations: State of the Art, Challenges and Future Directions. In *Computer Graphics* Forum (p. e15266).

PREPRINTS

Ahmed Masry\*, **Mohammed Saidul Islam**\*, Mahir Ahmed, Aayush Bajaj, Firoz Kabir, Aaryaman Kartha, Md Tahmid Rahman Laskar, Mizanur Rahman, Shadikur Rahman, Mehrad Shahmohammadi, Megh Thakkar, Md Rizwan Parvez, Enamul Hoque, Shafiq Joty. "ChartQAPro: A More Diverse and Challenging Benchmark for Chart Question Answering" *arXiv preprint arXiv:2504.05506v1.*
***\*Equal Contribution First Author***

## Google Scholar (as of April 2025)

CITATIONS. 173

H-INDEX. 4

I10-INDEX. 4

## Academic Projects

ENHANCING LOW-LIGHT IMAGES USING RETINEX THEORY

This project focuses on enhancing images captured in low-light conditions via illumination map estimation and reflectance estimation using a Retinex-based approach.

CO-AUTHOR NETWORK ANALYSIS AND THE IMPACT OF LLMS ON RESEARCH DOMAINS

The project aims to explore how co-authorship networks are formed between authors affiliated with both industry and academia, highlighting trends in publication patterns and the influence of LLMs across various research domains.

**PAPER REPLICATION** - CONTRASTIVE LEARNING FOR COMPACT SINGLE IMAGE DEHAZING

The project aims to replicate the experimental results presented in the paper titled '*Contrastive Learning for Compact Single Image Dehazing*'.

## Awards & Scholarships

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| 2023 | **Graduate Research Fellowship & Graduate Entrance Scholarship**, York University | *67845 CAD* |
| 2016-2019 | **OIC Partial Scholarship**, Islamic University of Technology | *10500 USD* |
| 2016-2019 | **Government Scholarship**, Intermediate and Secondary Education Boards, Bangladesh | |
| 2013-2015 | **Government Scholarship**, Intermediate and Secondary Education Boards, Bangladesh | |

## Skills

LANGUAGE AND DATABASE. Python, C, C++, Java, LaTex, MySQL, Oracle SQL

DEVELOPMENT TOOLS. VSCode, Jupyter Notebook, Spyder, Matlab, Netbeans, Intellij, Eclipse, Gephi

FRAMEWORKS AND LIBRARIES. PyTorch, TensorFlow, Keras, Scikit-learn, Numpy, Pandas, Matplotlib, HuggingFace, LangChain, NetworkX

## Certifications

MACHINE LEARNING. by Stanford University in Coursera

Tensorflow in Practice Specialization   by DeepLearning.ai in Coursera

IBM Data Science Professional Certificate   by IBM in Coursera

## Teaching Experience

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| W'23, F'24 | **EECS 1022: Introduction to Object Oriented Programming**, Teaching Assistant |
| Summer'22 | **CSE 4407: System Analysis and Design**, Instructor |
| Winter'22 | **CSE 4107: Structured Programming in C**, Instructor |

## Outreach & Professional Development

### Service and Outreach

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| 2019 | **IUT Computer Society**, Committee Member |
| 2024 | **Bangladeshi Graduate Students Association at York**, President |

### Peer Review - *ACL ARR, EMNLP, NAACL*