

Md Mahadi Hasan Nahid

Graduate Student, University of Alberta, Canada

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RESEARCH INTERESTS

Information Retrieval (IR), Natural Language Processing (NLP), Large Language Models (LLM)

EDUCATION

MSc (Thesis) in Computing Science, University of Alberta, Canada Sep 2022 - Present

- **GPA:** 4.00/4.00; **Research Area:** *Natural Language Generation and Complex Reasoning*
- **Achievements:** *Alberta Innovates Graduate Student Scholarship (AIGSS), Sep 2023; Alberta Graduate Excellence Scholarship (AEGS), Sep 2023; University of Alberta Graduate Recruitment Scholarship, Sep 2022*

BSc (Engg.) in CSE, Shahjalal Univ. of Sci. and Tech. (SUST), Bangladesh Jan 2011 - Dec 2015

- **GPA:** 3.82/4.00; **Class Position:** *1st / 54 Students*
- **Achievements:** *Vice Chancellor Award - 2020, Prime Minister Gold Medal - 2016*

SELECTED PUBLICATIONS

- Das, K., Srinivas, M. N., Shahrear, P., Rahman, S. S., Nahid, M. M., & Murthy, B. S. N. (2023). Transmission Dynamics and Control of COVID-19: A Mathematical Modelling Study. *Journal of Applied Nonlinear Dynamics*, 12(02), 405-425.
- Shahrear, P., Rahman, S. S., & Nahid, M. M. H. (2021). Prediction and mathematical analysis of the outbreak of coronavirus (COVID-19) in Bangladesh. *Results in Applied Mathematics*, 10, 100145.
- Foysal, T. A., Mahadi, M. A., Nahid, M. M. H., & Tasnim, A. (2021, November). Bangla-ExtraSum: Comparative Analysis of Different Methods in Automated Extractive Bengali Text Summarization. In *2021 5th International Conference on Electrical Engineering and Information Communication Technology (ICEEICT)* (pp. 1-6). IEEE.
- Azad, M. A., Singha, H. S., & Nahid, M. M. H. (2021, August). Zilla-64: A Bangla Handwritten Word Dataset Of 64 Districts Name of Bangladesh and Recognition Using Holistic Approach. In *2021 International Conference on Science & Contemporary Technologies (ICSCT)* (pp. 1-6). IEEE.
- Sarker, S., Islam, M. E., Saurav, J. R., & Nahid, M. M. H. (2020, November). Word completion and sequence prediction in bangla language using trie and a hybrid approach of sequential LSTM and N-gram. In *2020 2nd International Conference on Advanced Information and Communication Technology (ICAICT)* (pp. 162-167). IEEE.
- Azad, M. A., Singha, H. S., & Nahid, M. M. H. (2020, November). Bangla handwritten character recognition using deep convolutional autoencoder neural network. In *2020 2nd International Conference on Advanced Information and Communication Technology (ICAICT)* (pp. 295-300). IEEE. (**Honorable Mention Award**)
- Sarker, S., Monisha, S. T. A., & Nahid, M. M. H. (2019, September). Bengali question answering system for factoid questions: A statistical approach. In *2019 International Conference on Bangla Speech and Language Processing (ICBSLP)* (pp. 1-5). IEEE.
- Monisha, S. T. A., Sarker, S., & Nahid, M. M. H. (2019, May). Classification of bengali questions towards a factoid question answering system. In *2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)* (pp. 1-5). IEEE.
- Khan, S., Kubra, K. T., & Nahid, M. M. H. (2018, December). Improving answer extraction for bangali q/a system using anaphora-cataphora resolution. In *2018 International Conference on Innovation in Engineering and Technology (ICIET)* (pp. 1-6). IEEE.
- Ritu, Z. S., Nowshin, N., Nahid, M. M. H., & Ismail, S. (2018, September). Performance analysis of different word embedding models on bangla language. In *2018 International Conference on Bangla Speech and Language*

Processing (ICBSLP) (pp. 1-5). IEEE.

- Nahid, M. M. H., Purkaystha, B., & Islam, M. S. (2017, December). Bengali speech recognition: A double layered LSTM-RNN approach. In 2017 20th international conference of computer and information technology (ICCIT) (pp. 1-6). IEEE.
- Nahid, M. M. H., Islam, M. A., & Islam, M. S. (2016, May). A noble approach for recognizing bangla real number automatically using cmu sphinx4. In 2016 5th international conference on informatics, electronics and vision (ICIEV) (pp. 844-849). IEEE.

CONFERENCE REVIEW

Subreviewer SIGIR 2023, CIKM 2023, ICBSLP 2019, ICERIE 2019

ACHIEVEMENTS AND AWARDS

Alberta Innovates Graduate Student Scholarship (AIGSS) Sep 2023 - Aug 2024

- Amount: \$ 26000

Alberta Graduate Excellence Scholarship (AEGS) Sep 2023 - Mar 2024

- Amount: \$ 12000

Alberta Machine Intelligence Institute (Amii) Talent Bursary, Amii 2023

- Upperbound AI Conference, 2023

University of Alberta Graduate Recruitment Scholarship Sep 2022

- Awarded by the University of Alberta for excellent academic background.

Runner Up Award - AIForBangla season 1 Feb 2022

- National project contest funded by Bangladesh gov. for Bangla NLP research.
- Awarded for creating 'SUST Bangla NLP Toolkit (SBNLTK)' as project mentor. [\[link\]](#)

Vice Chancellor Award - 2020 2020

- For exceptional academic performance and ranking as the top student in the School of Applied Sciences and Technology at SUST.

IEEE Honorable Mention Award, Awarded by CAICT Conference 2020 2020

- Our paper was one of the top 5 papers at this conference in the domain of NLP-ML.

Prime Minister Gold Medal - 2016 2018

- 141 students nationwide recognized for top marks in their faculties. [\[link \(page-23\)\]](#)

ICPC World Final Contest 2018 - 2019

- Beijing, China 2018: 56th Position, Participated as Co-trainer.
- Porto, Portugal 2019: Honorable Mention, Participated as Co-trainer.

University Scholarship from SUST 2012 - 2015

- Awarded by SUST, for achieving the best results for every academic year.

Bangladesh Government's Ministry of Education Scholarship 2011

- Received this scholarship for the academic result of the HSC Board Examination.

TEACHING AND RESEARCH EXPERIENCE

Graduate Teaching Assistant, University of Alberta, Canada Sep 2022 - present

- **Course: CMPUT 291 - File and Database Management (F22, W23 and F23, W24)**

- Graduate Research Assistant Fellow, University of Alberta, Canada** May 2023 - Aug 2023
– Graduate Research Assistant Fellowship (GRAF), Summer 2023
- Faculty Member, Shahjalal Univ. of Sci. and Tech. (SUST), Bangladesh** Sep 2017 - Aug 2022
– **Course:** OOP, Communication Engineering, Introduction to Computer Language
- Research Coordinator, SUST NLP Lab** Jan 2018 - Aug 2022
– I collaborate research projects on Bangla QA and Bangla Document Summarization.
- Research Assistant, Department of Computer Science and Engineering, SUST** Apr 2013 - Dec 2013
– **Supervisor:** *Professor Dr. M. Abdullah Al Mumin*
– **Contributions:** Building an English-Bangla Parallel Corpus for Statistical Machine Translation.

OTHER EXPERIENCE

- Core Member, Center for Research, Testing and Consultancy, CSE, SUST** Jan 2020 - Aug 2022
– **Project:** Digital Sylhet City - Automation of Sylhet M. A. G. Osmani Medical College Hospital (the largest government hospital in Sylhet Division)
– **Role:** I helped the team with requirements engineering and designing the product's architecture.

SELECTED PROJECTS AND GRANTS

- A New Approach for Bengali Document Summarization** Aug 2020 - Jul 2021
– **Role:** Co-investigator; **Grant Amount:** BDT 175,000 (USD \$ 2065)
– **Project Code:** AS/2020/1/30, SUST Research Center (2020-21)
- Ankur: A VR based E-Learning application to train people with Autism** Aug 2019 - Jul 2020
– **Role:** Principle Investigator; **Grant Amount:** BDT 150,000 (USD \$ 1700)
– **Project Code:** AS/2019/1/19, SUST Research Center (2019-20)
- SUST Admission Chatbot** Aug 2018 - Jul 2019
– **Role:** Co-Investigator; **Grant Amount:** BDT 150,000 (USD \$ 1700)
– **Project Code:** AS/2018/1/10, SUST Research Center (2018-19)

SKILLS

Language	Python, C/C++, Java, SQL
Frameworks	PyTorch, Tensorflow, Pandas, Keras
Utilities	Git, Jupyter Notebook, LaTeX
Communication	English, Bengali

EXTRA CURRICULAR ACTIVITIES

Undergraduate Student Mentor	Department of CSE, SUST (Sep 2021-Aug 2022)
Advisor	SUST ACM Student Chapter (Sep 2019-Aug 2022)
Program Committee Member	ICBSLP Conference (2018, 2019)
Organizer	SUST CSE Carnival (2018, 2019); SUST Techfest (2019)
Executive Member	CSE Alumni Association, SUST (2018-2021)