


Mir Tafseer Nayeem

 Ph.D. Student in Computing Science, University of Alberta

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Education

University of Alberta

Ph.D. in Computing Science

Edmonton, Canada

Sept 2021 – Current

Thesis Title: *"Human-Centric Modeling of Content"*

Supervisor: Prof. Davood Rafiei

Committee members: Prof. Osmar Zaiane, Prof. Lili Mou

University of Lethbridge

M.Sc. in Computer Science

Lethbridge, Canada

Sept 2015 – Oct 2018

Thesis Title: *"Methods of Sentence Extraction, Abstraction and Ordering for Automatic Text Summarization"*

Supervisor: Prof. Yllias Chali

Committee members: Prof. Wendy Osborn, Prof. John Anvik

Islamic University of Technology

B.Sc. in Computer Science & IT

Dhaka, Bangladesh

Jan 2008 – Jan 2012

Thesis Title: *"Designing a Probabilistic Path Selection Model for Vehicular Networks"*

Supervisor: Prof. Muhammad Mahbub Alam

Awards & Scholarships

Huawei Ph.D. Fellowship

[2022 – 2027]

University of Alberta Graduate Recruitment Scholarship

[2021 – 2022]

[Best paper nomination](#) at COLING 2018

[2018]

[Area Chair Favorite](#) paper at COLING 2018

[2018]

ACM SIGIR Student Travel Grant

[2017]

S.G.S Research Dissemination Travel Award

[2017]

Graduate Student's Association (GSA) Travel Award

[2017]

School of Graduate Studies (S.G.S) Dean's Scholarship

[2015 – 2017]

School of Graduate Studies (S.G.S) International Tuition Award

[2015 – 2017]

IUT-OIC Full Free Scholarship

[2008 – 2012]

Publications

Full publication list can be accessed from [Google Scholar](#). [* = Equal Contribution]

- [1] Faisal Tareque Shohan*, **Mir Tafseer Nayeem***, Samsul Islam, Abu Ubaida Akash, and Shafiq Joty, "XL-HeadTags: Leveraging Multimodal Retrieval Augmentation for the Multilingual Generation of News Headlines and Tags", 62nd Annual Meeting of the Association for Computational Linguistics (**ACL 2024 Findings**). [👉 Link](#)
- [2] Mohsinul Kabir*, 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", Joint International Conference on Computational Linguistics, Language Resources and Evaluation (**LREC-COLING 2024**). [👉 Link](#)
- [3] Ali Naeim abadi, **Mir Tafseer Nayeem**, and Davood Rafiei, "Product Entity Matching via Tabular Data", 32nd ACM International Conference on Information and Knowledge Management (**CIKM 2023**). [👉 Link](#)

- [4] **Mir Tafseer Nayeem** and Davood Rafiei, “On the Role of Reviewer Expertise in Temporal Review Helpfulness Prediction”, 17th Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2023 Findings**). [[👉 Link](#)]
- [5] Abu Ubaida Akash*, **Mir Tafseer Nayeem***, Faisal Tareque Shohan, and Tanvir Islam, “Shironaam: Bengali News Headline Generation using Auxiliary Information”, 17th Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2023**). [[👉 Link](#)]
- [6] Susmoy Chakraborty*, **Mir Tafseer Nayeem***, and Wasi Ahmad, “Simple or Complex? Learning to Predict Readability of Bengali Texts”, Thirty-Fifth AAAI Conference on Artificial Intelligence (**AAAI 2021**). [[👉 Link](#)]
- [7] Radia Rayan Chowdhury*, **Mir Tafseer Nayeem***, Tahsin Tasnim Mim, Md. Saifur Rahman Chowdhury, and Taufiqul Jannat, “Unsupervised Abstractive Summarization of Bengali Text Documents”, 16th Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2021**). [[👉 Link](#)]
- [8] **Mir Tafseer Nayeem**, Tanvir Ahmed Fuad, and Yllias Chali, “Neural Diverse Abstractive Sentence Compression Generation”, 41st European Conference on Information Retrieval (**ECIR 2019**). [[👉 Link](#)]
- [9] Tanvir Ahmed Fuad*, **Mir Tafseer Nayeem***, Asif Mahmud, and Yllias Chali, “Neural Sentence Fusion for Diversity Driven Abstractive Multi-Document Summarization”, **Computer Speech & Language**, 2019, 58:216-230. [[👉 Link](#)]
- [10] Kazi A Kalpoma, Mostafa A Kamal, **Mir Tafseer Nayeem**, and Shahriar Mahbub, “Report of the Baseline Study on Technology-Enabled Learning at Ahsanullah University of Science and Technology”, **Commonwealth of Learning (COL)**, 2019. [[👉 Link](#)]
- [11] Sibendu Sarker, Wayne Franz, and **Mir Tafseer Nayeem**, “Automatic Individual Information Aggregation using Publicly Available Social Media Data”, 22nd International Conference on Computer and Information Technology (**ICCIT 2019**). [[👉 Link](#)]
- [12] **Mir Tafseer Nayeem**, Tanvir Ahmed Fuad, and Yllias Chali, “Abstractive Unsupervised Multi-Document Summarization using Paraphrastic Sentence Fusion”, 27th International Conference on Computational Linguistics (**COLING 2018**). [[👉 Link](#)] 🏆 **Best Paper Nomination & Area Chair Favorite**
- [13] **Mir Tafseer Nayeem** and Yllias Chali, “Paraphrastic Fusion for Abstractive Multi-Sentence Compression Generation”, 26th ACM International Conference on Information and Knowledge Management (**CIKM 2017**). [[👉 Link](#)] 💰 **ACM SIGIR Student Travel Grant**
- [14] Yllias Chali, Moin Mahmud Tanvee, and **Mir Tafseer Nayeem**, “Towards Abstractive Multi-Document Summarization Using Submodular Function-Based Framework, Sentence Compression and Merging”, 8th International Joint Conference on Natural Language Processing (**IJCNLP 2017**). [[👉 Link](#)]
- [15] **Mir Tafseer Nayeem** and Yllias Chali, “Extract with Order for Coherent Multi-Document Summarization”, TextGraphs-11: The Workshop on Graph-based Methods for Natural Language Processing (**ACL 2017 Workshop**). [[👉 Link](#)]
- [16] **Mir Tafseer Nayeem**, Md Mamunur Rashid Akand, Nazmus Sakib, and Md. Wasi Ul Kabir, “Design of a Human Interaction Proof (HIP) using Human Cognition in Contextual Natural Conversation”, IEEE 13th International Conference on Cognitive Informatics and Cognitive Computing (**IEEE ICCI*CC’14**). [[👉 Link](#)]
- [17] **Mir Tafseer Nayeem**, Md Mamunur Rashid Akand, Nazmus Sakib, and Md. Wasi Ul Kabir, “Human Cognition in Automated Turing Test Design”, International Journal of Software Science and Computational Intelligence (**IJSSCI**), 2014, 6(4):1–19. [[👉 Link](#)]
- [18] **Mir Tafseer Nayeem**, Md. Saddam Hossain Mukta, Samsuddin Ahmed, and Md. Mahbubur Rahman, “Use of Human Cognition in HIP Design Via Emotlcons to Defend BOT Attacks”, IEEE 15th International Conference on Computational Science and Engineering (**IEEE CSE 2012**). [[👉 Link](#)]
- [19] Khandaker Tabin Hasan, Md. Saddam Hossain Mukta, **Mir Tafseer Nayeem**, and Zahid Hasan, “Event-based Content Management by Spontaneous Metadata Generation and Diffusion”, IEEE 13th International Symposium on Computational Intelligence and Informatics (**IEEE CINTI 2012**). [[👉 Link](#)]

- [20] Fausto Giunchiglia, Md Saddam Hossain Mukta, **Mir Tafseer Nayeem**, and Khandaker Tabin Hasan, “*Semantic Enabled Role Based Social Network*”, International Journal of Intelligent Systems and Applications (**IJISA**), 2012, 4(12):1–11. [[Link](#)]
- [21] Khandaker Tabin Hasan, Md. Saddam Hossain Mukta, **Mir Tafseer Nayeem**, and Sharmin Afsah, “*Publishing Knowledge and Transformation of Conventional Web into Semantic Web using Metadata*”, International Journal of Computer Applications (**IJCA**), 2012, 54(13):41–48. [[Link](#)]
- [22] Md Rifat Ahmmad Rashid, **Mir Tafseer Nayeem**, Kamrul Hasan Talukder, and Md Saddam Hossain Mukta, “*A Progressive Image Transmission Method Based on Discrete Wavelet Transform (DWT)*”, International Journal of Image, Graphics and Signal Processing (**IJIGSP**), 2012, 4(10):18–24. [[Link](#)]
- [23] Moin Mahmud Tanvee, **Mir Tafseer Nayeem**, and Md Mahmudul Hasan Rafee, “*Move & select: 2-layer CAPTCHA Based on Cognitive Psychology for Securing Web Services*”, International Journal of Video & Image Processing and Network Security (**IJVIPNS/IJENS**), 2011, 11(5):9–17. [[Link](#)]

Activities

Services

Program Committee/Reviewer

- 2024: [ACL](#), [EMNLP](#), [NAACL](#), [EACL](#), [SIGIR](#), [WSDM](#)
- 2023: [SIGIR](#), [KDD](#), [WSDM](#), [CIKM](#)
- 2022: [SIGIR](#), [KDD](#), [CIKM](#), [ICDE](#)
- 2020: [ICCIT](#)
- 2019: [ICIET](#)

Invited Talks

- Talk on [Introduction to NLTK](#) at University of Lethbridge (UofL), AB, Canada. [2017]
- Guest Lecturer in CPSC 3750 - Artificial Intelligence course, UofL, AB, Canada. [2017]

Leadership

- Lab Manager, Database Lab, University of Alberta, Edmonton, AB, Canada. [2022 – Current]
- Founding Admin of a Discord server comprising approximately 4,500+ members dedicated to assisting prospective students with grad school applications. [2021 - Current]
- Member, Logistics & IT Support Committee, [ICCIT 2020](#) Conference.
- Organizing committee, Commonwealth of Learning (COL) TEL AUST Project [[report](#)].
- Organizer and Host, Intel Nervana AI Academy - Workshop. [2017]
- Convener, Project Showcasing, AUST CSE WEEK. [2018]
- Organizing committee member, AUST CSE Fest. [2013, 2014]
- Organizing committee member, BUBT CSE FIESTA. [2012]
- Organizing committee member, IUT ICT Fest. [2011]

Experience

Graduate Teaching Assistant

University of Alberta, Computing Science Department

Sept 2021 – Current

Edmonton, Canada

Courses TAed:

- CMPUT 101 - Introduction to Computing
- CMPUT 291 - Introduction to File and Database Management

Faculty Member, CSE Department*Ahsanullah University of Science and Technology (AUST)***Oct 2018 – Jul 2021**

Dhaka, Bangladesh

Courses Taught:

- CSE 4237 & 4238 - Soft Computing with Lab
 - CSE 3223 & 3224 - Information System Design and Software Engineering with Lab
 - CSE 3104 - Database Lab
 - CSE 1108 - Introduction to Computer Systems
-

Graduate Teaching Assistant*University of Lethbridge, Computer Science Department***Sept 2015 – Sept 2017**

Lethbridge, Canada

Courses TAed:

- CPSC 1620 & 2620 - Fundamental of Programming I & II
 - CPSC 2720 - Practical Software Development
-

Lecturer, CSE Department*Ahsanullah University of Science and Technology (AUST)***Oct 2012 – Aug 2015**

Dhaka, Bangladesh

Courses Taught:

- CSE 4129 & CSE 4130 - Formal Languages & Compilers with Lab
 - CSE 4108 - Artificial Intelligence Lab
 - CSE 2104 - Data Structures Lab
-

Lecturer, CSE Department*Bangladesh University of Business and Technology (BUBT)***Feb 2012 – Sept 2012**

Dhaka, Bangladesh

Courses Taught: C Programming, Data Structures, Numerical Methods.**Industrial Trainee***Systech Digital Ltd.***Aug 2010 – Oct 2010**

Dhaka, Bangladesh

- Collaborated with a team of four to develop appointment management software using the PHP framework CodeIgniter and MySQL.

**References***Available on request.*

[CV updated on June 29, 2024]