


# 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**

**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**

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


**Supervisor:** Prof. Muhammad Mahbub Alam

## Awards & Scholarships

<b>Best Resource Paper Award</b> at EMNLP 2024	[2024]
<b>Huawei Ph.D. Fellowship</b>	[2022 – 2027]
Nominated for PhD Early Achievement Award	[2023]
University of Alberta Graduate Recruitment Scholarship	[2021 – 2022]
<b>Area Chair Favorite Paper Award</b> at COLING 2018	[2018]
<b>ACM SIGIR</b> 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] **Mir Tafseer Nayeem** and Davood Rafiei, "KidLM: Advancing Language Models for Children – Early Insights and Future Directions", The 2024 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2024**). [\[👉 Link\]](#)  **Best Resource Paper Award**
- [2] 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", The 2024 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2024 Findings**). [\[👉 Link\]](#)

- [3] **Mir Tafseer Nayeem\***, Faisal Tareque Shohan\*, Samsul Islam, Abu Ubaida Akash, and Shafiq Joty, “*XL-HeadTags: Leveraging Multimodal Retrieval Augmentation for the Multilingual Generation of News Headlines and Tags*”, 62<sup>nd</sup> Annual Meeting of the Association for Computational Linguistics (**ACL 2024 Findings**). [👉 Link](#)
- [4] 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 (**COLING 2024**). [👉 Link](#)
- [5] Ali Naeim abadi, **Mir Tafseer Nayeem**, and Davood Rafiei, “*Product Entity Matching via Tabular Data*”, 32<sup>nd</sup> ACM International Conference on Information and Knowledge Management (**CIKM 2023**). [👉 Link](#)
- [6] **Mir Tafseer Nayeem** and Davood Rafiei, “*On the Role of Reviewer Expertise in Temporal Review Helpfulness Prediction*”, 17<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2023 Findings**). [👉 Link](#)
- [7] **Mir Tafseer Nayeem\***, Abu Ubaida Akash\*, Faisal Tareque Shohan, and Tanvir Islam, “*Shironaam: Bengali News Headline Generation using Auxiliary Information*”, 17<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2023**). [👉 Link](#)
- [8] **Mir Tafseer Nayeem\***, Susmoy Chakraborty\*, and Wasi Ahmad, “*Simple or Complex? Learning to Predict Readability of Bengali Texts*”, Thirty-Fifth AAAI Conference on Artificial Intelligence (**AAAI 2021**). [👉 Link](#)
- [9] **Mir Tafseer Nayeem\***, Radia Rayan Chowdhury\*, Tahsin Tasnim Mim, Md. Saifur Rahman Chowdhury, and Taufiqul Jannat, “*Unsupervised Abstractive Summarization of Bengali Text Documents*”, 16<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2021**). [👉 Link](#)
- [10] **Mir Tafseer Nayeem**, Tanvir Ahmed Fuad, and Yllias Chali, “*Neural Diverse Abstractive Sentence Compression Generation*”, 41<sup>st</sup> European Conference on Information Retrieval (**ECIR 2019**). [👉 Link](#)
- [11] **Mir Tafseer Nayeem\***, Tanvir Ahmed Fuad\*, Asif Mahmud, and Yllias Chali, “*Neural Sentence Fusion for Diversity Driven Abstractive Multi-Document Summarization*”, **Computer Speech & Language**, 2019, 58:216-230. [👉 Link](#)
- [12] 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](#)
- [13] Sibendu Sarker, Wayne Franz, and **Mir Tafseer Nayeem**, “*Automatic Individual Information Aggregation using Publicly Available Social Media Data*”, 22<sup>nd</sup> International Conference on Computer and Information Technology (**ICCIT 2019**). [👉 Link](#)
- [14] **Mir Tafseer Nayeem**, Tanvir Ahmed Fuad, and Yllias Chali, “*Abstractive Unsupervised Multi-Document Summarization using Paraphrastic Sentence Fusion*”, 27<sup>th</sup> International Conference on Computational Linguistics (**COLING 2018**). [👉 Link](#) 🏆 **Area Chair Favorite Paper Award**
- [15] **Mir Tafseer Nayeem** and Yllias Chali, “*Paraphrastic Fusion for Abstractive Multi-Sentence Compression Generation*”, 26<sup>th</sup> ACM International Conference on Information and Knowledge Management (**CIKM 2017**). [👉 Link](#)  
💰 **ACM SIGIR Student Travel Grant**
- [16] Yllias Chali, Moin Mahmud Tanvee, and **Mir Tafseer Nayeem**, “*Towards Abstractive Multi-Document Summarization Using Submodular Function-Based Framework, Sentence Compression and Merging*”, 8<sup>th</sup> International Joint Conference on Natural Language Processing (**IJCNLP 2017**). [👉 Link](#)
- [17] **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](#)
- [18] **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 13<sup>th</sup> International Conference on Cognitive Informatics and Cognitive Computing (**IEEE ICCI\*CC’14**). [👉 Link](#)

- [19] **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. [\[👉 Link\]](#)
- [20] **Mir Tafseer Nayeem**, Md. Saddam Hossain Mukta, Samsuddin Ahmed, and Md. Mahbubur Rahman, “*Use of Human Cognition in HIP Design Via EmotIcons to Defend BOT Attacks*”, IEEE 15<sup>th</sup> International Conference on Computational Science and Engineering (**IEEE CSE 2012**). [\[👉 Link\]](#)
- [21] Khandaker Tabin Hasan, Md. Saddam Hossain Mukta, **Mir Tafseer Nayeem**, and Zahid Hasan, “*Event-based Content Management by Spontaneous Metadata Generation and Diffusion*”, IEEE 13<sup>th</sup> International Symposium on Computational Intelligence and Informatics (**IEEE CINTI 2012**). [\[👉 Link\]](#)
- [22] 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. [\[👉 Link\]](#)
- [23] 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. [\[👉 Link\]](#)
- [24] 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. [\[👉 Link\]](#)
- [25] 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

- 2025: [NAACL](#)
- 2024: [ACL](#), [EMNLP](#), [NAACL](#), [EACL](#), [SIGIR](#), [WSDM](#)
- 2023: [SIGIR](#), [KDD](#), [WSDM](#), [CIKM](#)
- 2022: [SIGIR](#), [KDD](#), [CIKM](#), [ICDE](#)

### 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

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### Graduate Teaching Assistant

Sept 2021 – **Current**

*University of Alberta, Computing Science Department*

Edmonton, Canada

#### Courses TAed:

- CMPUT 101 - Introduction to Computing
  - CMPUT 291 - Introduction to File and Database Management
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### Faculty Member, CSE Department

Oct 2018 – Jul 2021

*Ahsanullah University of Science and Technology (AUST)*

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
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### Graduate Teaching Assistant

Sept 2015 – Sept 2017

*University of Lethbridge, Computer Science Department*

Lethbridge, Canada

#### Courses TAed:

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

### Lecturer, CSE Department

Oct 2012 – Aug 2015

*Ahsanullah University of Science and Technology (AUST)*

Dhaka, Bangladesh

#### Courses Taught:

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

Feb 2012 – Sept 2012

*Bangladesh University of Business and Technology (BUBT)*

Dhaka, Bangladesh

**Courses Taught:** C Programming, Data Structures, Numerical Methods.

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### Industrial Trainee

Aug 2010 – Oct 2010

*Systech Digital Ltd.*

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 February 7, 2025]