Shafiuddin Rehan Ahmed

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Personal Website LinkedIn GitHub Google Scholar

RESEARCH INTERESTS

Natural Language Processing · Information Extraction and Retrieval · Knowledge Graphs · Machine Learning · Deep Learning · Neuro-Symbolic NLP · Generative Models · Comprehension

EDUCATION

MS and *Ph.D.*, Computer Science and Engineering
University of Colorado, Boulder, USA — *Aug 2017 - May 2024*

Bachelor of Technology, Computer Science and Engineering
Indian Institute of Technology, Hyderabad, India — *Aug 2008 - May 2012*

TECHNICAL SKILLS

Programming:	Python, Java, C#, C++
IDE:	PyCharm, VSCode
Deep Learning:	PyTorch

RESEARCH EXPERIENCE (2 YEARS IN INDIA, 5 YEARS 10 MONTHS IN USA)

Graduate Research Assistant (`Python`)
University of Colorado, Boulder, USA — *Jan 2024 - May 2024*

Machine Learning Engineer Intern - Remote (`Python`)
ExplosionAI GmbH (makers of spaCy), Berlin, Germany — *May 2023 - Aug 2023*

Machine Learning Engineer Intern - Remote (`Python`)
ExplosionAI GmbH (makers of spaCy), Berlin, Germany — *May 2022 - Aug 2022*

Graduate Research Assistant (`Java, Python`)
University of Colorado, Boulder, USA — *Jan 2018 - May 2022*

Software Engineering Intern II (`Python`)
Sopris Health, USA — *June 2018 - Aug 2018*

Senior R&D Engineer (`C#, Python`)
HP Inc. R&D, Bangalore, India — *Aug 2012 - Aug 2017*

TEACHING EXPERIENCE

Natural Language Processing — *Aug 2023 - Dec 2023*
Teaching Assistant

Fundamentals of Software Engineering — *Jan 2023 - May 2023*
Teaching Assistant

Natural Language Processing — *Aug 2022 - Dec 2022*
Teaching Assistant

Numerical Linear Algebra *Aug 2017 - Dec 2017*
Student Assistant

PATENTS

1. Shameed Sait M A, Shafiuddin Rehan Ahmed, Niranjan Damera Venkata. *Providing Solutions Using Stochastic Modelling*. en. 2018. URL: https://patents.google.com/patent/US20210049489A1/

AWARDS

1. Best Frame Recall for Cross Document Event Coreference Resolution in Text Analysis Conference, 2019
2. 3rd Place Outstanding Poster - In-Progress Research, Graduate Students' Research expo., 2018-2019
3. Merit-cum-Means Scholarship for Undergraduate Studies, 2009-2012

PAPERS

1. Shafiuddin Rehan Ahmed, George Baker, Evi Judge, Michael Regan, Kristin Wright-Bettner, Martha Palmer, and James H. Martin. "Linear Cross-document Event Coreference Resolution with X-AMR". in: *Proceedings of the Joint Conference of the 15th Language Resources and Evaluation Conference, and, the 30th International Conference on Computational Linguistics*. Torino, Italy: European Language Resources Association, May 2024. URL: https://arxiv.org/abs/2404.08656
2. Abhijnan Nath, Huma Jamil, Shafiuddin Rehan Ahmed, George Baker, Rahul Ghosh, James H. Martin, Nathaniel Blanchard, and Nikhil Krishnaswamy. *Multimodal Cross-Document Event Coreference Resolution Using Linear Semantic Transfer and Mixed-Modality Ensembles*. 2024. arXiv: 2404.08949 [cs.CL]
3. Shafiuddin Rehan Ahmed, Jon Cai, Martha Palmer, and James H. Martin. "X-AMR Annotation Tool". In: *Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics: System Demonstrations*. Malta: Association for Computational Linguistics, Mar. 2024. URL: https://arxiv.org/abs/2403.15407
4. Jon Cai, Shafiuddin Rehan Ahmed, Julia Bonn, Kristin Wright-Bettner, Martha Palmer, and James H. Martin. "CAMRA: Copilot for AMR Annotation". In: *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing: System Demonstrations*. Singapore: Association for Computational Linguistics, Dec. 2023, pp. 381–388. URL: https://aclanthology.org/2023.emnlp-demo.35
5. Shafiuddin Rehan Ahmed, Abhijnan Nath, Michael Regan, Adam Pollins, Nikhil Krishnaswamy, and James H. Martin. "How Good Is the Model in Model-in-the-loop Event Coreference Resolution Annotation?" In: *Proceedings of the 17th Linguistic Annotation Workshop (LAW-XVII)*. Toronto, Canada: Association for Computational Linguistics, July 2023, pp. 136–145. URL: https://aclanthology.org/2023.law-1.14
6. Shafiuddin Rehan Ahmed, Abhijnan Nath, James H. Martin, and Nikhil Krishnaswamy. "$2 * n$ is better than n^2: Decomposing Event Coreference Resolution into Two Tractable Problems". In: *Findings of the Association for Computational Linguistics: ACL 2023*. Toronto, Canada: Association for Computational Linguistics, July 2023, pp. 1569–1583. URL: https://aclanthology.org/2023.findings-acl.100
7. Cecilia Mauceri, Shafiuddin Rehan Ahmed, and Timothy O'Gorman. "RAMFIS System Report TAC 2018." In: *Proceedings of the 2018 Text Analysis Conference, TAC 2018, Gaithersburg, Maryland, USA, November 13-14, 2018*. NIST, 2018

REVIEWER DUTIES

ACL 2024 · EMNLP 2023 · StarSEM 2023, 24

COURSES

Deep Learning · Natural Language Processing · Algorithms · Machine Learning · Programming Languages · Probabilistic Models · Numerical Linear Algebra · Transformer Models · Probabilistic Programming Languages