






Shafiuddin Rehan Ahmed

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Boulder, Colorado, USA

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: VSCode, PyCharm
Deep Learning: PyTorch

RESEARCH EXPERIENCE (5+ YEARS)

Graduate Research Assistant (Python)
University of Colorado, Boulder, USA *Jan 2024 - May 2024*
Contributions: SemEval 2024 · ACL 2024

Machine Learning Engineer Intern - Remote (Python)
ExplosionAI GmbH (makers of spaCy), Berlin, Germany *May 2023 - Aug 2023*
Contributions: EACL_{SD} 2024 · LREC-COLING 2024b · Anno Tool 3

Machine Learning Engineer Intern - Remote (Python)
ExplosionAI GmbH (makers of spaCy), Berlin, Germany *May 2022 - Aug 2022*
Contributions: LAW 2023 · Anno Tool 2

Graduate Research Assistant (Java, Python)
University of Colorado, Boulder, USA *Jan 2018 - May 2022*
Contributions: TAC 2018 · TAC 2019 · ACL_f 2023 · EMNLP_{SD} 2023 · LREC-COLING 2024a · Anno Tool 1 ·

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

Senior R&D Engineer (Python)
HP Inc. R&D, Bangalore, India *Aug 2016 - Aug 2017*
Contributions: US Patent 2018

Software Developer (C#)
HP Inc. R&D, Bangalore, India *Aug 2012 - Aug 2016*

TEACHING EXPERIENCE

Natural Language Processing

Teaching Assistant

Aug 2023 - Dec 2023

Fundamentals of Software Engineering

Teaching Assistant

Jan 2023 - May 2023

Natural Language Processing

Teaching Assistant

Aug 2022 - Dec 2022

Numerical Linear Algebra

Student Assistant

Aug 2017 - Dec 2017

PATENTS

1. Shameed Sait M A, Shafiuddin Rehan Ahmed, Niranjana Damara 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, Zhiyong Wang, George Baker, Kevin Stowe, and James H. Martin. "Generating Harder Cross-document Event Coreference Resolution Datasets using Metaphoric Paraphrasing". In: *Proceedings of the Association for Computational Linguistics: ACL 2024*. Bangkok, Thailand: Association for Computational Linguistics, Aug. 2024
2. Micah Zhang, Shafiuddin Rehan Ahmed, and James H. Martin. "FtG-CoT at SemEval-2024 Task 9: Solving Sentence Puzzles Using Fine-Tuned Language Models and Zero-Shot CoT Prompting". In: *Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024)*. Mexico City, Mexico: Association for Computational Linguistics, 2024
3. Shafiuddin Rehan Ahmed, George Arthur Baker, Evi Judge, Michael Reagan, Kristin Wright-Bettner, Martha Palmer, and James H. Martin. "Linear Cross-document Event Coreference Resolution with X-AMR". in: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*. Torino, Italia: ELRA and ICCL, May 2024, pp. 10517–10529. URL: <https://aclanthology.org/2024.lrec-main.920>
4. 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]
5. 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>

6. Jon Cai, Shafiuiddin 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>
7. Shafiuiddin 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>
8. Shafiuiddin 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>
9. Cecilia Mauceri, Shafiuiddin Rehan Ahmed, Timothy O’Gorman, Chris Koski, Peter G. Anick, David White, and Martha Palmer. “RAMFIS: Integrating Diverse TAI’s”. In: *Text Analysis Conference, TAC*. 2019. URL: <https://api.semanticscholar.org/CorpusID:233303322>
10. Cecilia Mauceri, Shafiuiddin 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, 24 · StarSEM 2023, 24

COURSES

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

IMPORTANT LINKS

- Portfolio/Personal: <https://ahmeshaf.github.io>
- GitHub: <https://github.com/ahmeshaf>
- Google Scholar: <https://scholar.google.com/citations?user=t3IALyoAAAAJ>
- Semantic Scholar: <https://www.semanticscholar.org/author/Shafiuiddin-Rehan-Ahmed/1418353489>
- LinkedIn: <https://linkedin.com/in/ahmeshaf>
- Hugging Face: <https://huggingface.co/ahmeshaf/>
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