

MD MAHADI HASSAN

NLP / LLM Researcher & PhD Student

📍 Orlando, FL, USA

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SUMMARY

PhD student in Computer Science, at the University of Central Florida with research experience in natural language processing, large language models, model evaluation, and real-world task automation. My current research interests include contamination detection and mitigation in language models.

SKILLS

Languages: Python, C, C++, Java, Scala

Tools: PyTorch, Git, \LaTeX , Apache Spark

Areas: Natural Language Processing, Large Language Models, Language Model Evaluation, Real-World Task Automation, and Contamination Detection and Mitigation

EDUCATION

2024 – Present	University of Central Florida <i>PhD in Computer Science</i>	Orlando, FL, USA
2021 – 2024	Auburn University <i>MS in Computer Science & Software Engineering</i>	Auburn, AL, USA
2012 – 2017	Bangladesh University of Engineering and Technology <i>BSc in Computer Science & Engineering</i>	Dhaka, Bangladesh

SELECTED PUBLICATIONS

- Md. Mahadi Hassan**, John Salvador, Akond Ashfaqur Rahman, Shubhra Kanti Karmaker Santu. *Large Language Models for IT Automation Tasks: Are We There Yet?* Findings of ACL 2026.
- Eshgin Hasanov, **Md. Mahadi Hassan**, Santu Karmaker, Aashish Yadavally. *The Path Not Taken: Duality in Reasoning about Program Execution*. ACL 2026 Main Conference.
- Md. Mahadi Hassan**, Alex Knipper, Shubhra Kanti Karmaker Santu. *Introducing “Forecast Utterance” for Conversational Data Science*. TMLR 2024.
- Md. Mahadi Hassan**, John Salvador, Shubhra Kanti Karmaker Santu, Akond Ashfaqur Rahman. *State Reconciliation Defects in Infrastructure as Code*. FSE 2024.
- R. Alexander Knipper, **Md. Mahadi Hassan**, Mehdi Sadi, Shubhra Kanti Karmaker Santu. *Analogy-Guided Evolutionary Pretraining of Binary Word Embeddings*. AACL 2022.

RESEARCH & PROFESSIONAL EXPERIENCE

08/2024 – Present	Graduate Research Assistant	University of Central Florida, Orlando, FL	<ul style="list-style-type: none">Conducting research on large language models for real-world task automation, reasoning, and evaluation, with current interest in contamination detection and mitigation.Contributed to recent ACL 2026 work on IT automation and reasoning about program execution.
08/2021 – 08/2024	Graduate Research and Teaching Assistant	Auburn University, Auburn, AL	<ul style="list-style-type: none">Worked on conversational data science, language model applications, and software engineering research.Supported teaching and research activities in computer science and software engineering.
09/2017 – 12/2020	Senior Software Engineer	Reve Systems, Dhaka, Bangladesh	<ul style="list-style-type: none">Professional software engineering experience prior to graduate research, including large-scale product development.

SERVICE & RECOGNITION

Reviewing	Reviewer ARR (2023, 2025, 2026), EMNLP 2023, EMNLP (2023, 2025) Workshop BLP, TMLR (2024, 2025)
Conference Service	Track Committee Member ACL 2023, EMNLP 2022
Recognition	Awards & Membership Woltoz Fellowship at Auburn University (2021–2024); Professional Member of ACM (since 2024)