

Saurabh Srivastava

Department of Computer Science
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RESEARCH INTERESTS

I am interested in Information Extraction, Question-Answering (QA), Dialogue Systems, Knowledge graph applications using tools from graph theory, and representation learning. In particular, my current research aims to build natural language interfaces that perform event extraction and facilitates knowledge graph population and question answering over the extracted events and their arguments. I am also interested in cyberbullying & hate-speech detection, and Sarcasm Detection.

EDUCATION

George Mason University

Fairfax, VA

- PhD student in Computer Science; GPA: 3.80
Advisor(s): Prof. Ziyu Yao

Jan. 2022 – Dec. 2026 (*Expected*)

Indian Institute of Technology

Patna, India

- Master of Technology in Computer Science & Engineering; CGPA: 9.64/10.0, Rank: 1st
Advisor(s): Prof. Pushpak Bhattacharyya & Prof. Asif Ekbal

Aug. 2015 – Aug. 2017

Faculty of Engineering and Technology, Agra College

Agra, India

- Bachelor of Technology in Computer Science & Engineering
Summa Cum Laude, Rank: 1st in department

Aug. 2010 – Aug. 2014

CODING PROFICIENCY

Advanced: Python, Java, and C/C++.

EMPLOYMENT

George Mason University

Fairfax, VA

- Graduate Research Assistant
Advisor(s): Prof. Ziyu Yao

Jan. 2022 - Present

TCS Research

New Delhi, India

- I.T. Analyst
Advisor(s): Dr. Gautam Shroff and Dr. Puneet Agarwal

Sept. 2020 - Dec. 2021

TCS Research

New Delhi, India

- Systems Engineer
Advisor(s): Dr. Gautam Shroff and Dr. Puneet Agarwal

Sept. 2017 - Sep. 2020

Tata Research Design and Development Center

Pune, India

- Research Intern
Advisor(s): Dr. Girish Keshav Palshikar

May. 2016 - Jul. 2016

Hypatia Software Solutions

Varanasi, India

- Software Intern
Advisor(s): Champak Roy

Jun. 2013 - Aug. 2013

PROFESSIONAL SERVICES

Reviewer/Program Committee

CL/NLP Conferences

- ACL 2023: The 61st Annual Meeting of the Association for Computational Linguistics

- The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP-2022)
- International Conference on Natural Language Processing (ICON) 2020

Workshops

- SUKI @ North American Chapter of the Association for Computational Linguistics (NAACL) 2022

HONORS AND AWARDS

Institute Silver Medal

- Indian Institute of Technology, Patna *Aug. 2017*
Master of Technology in Computer Science and Engineering

Institute Proficiency Award

- Indian Institute of Technology, Patna *Aug. 2017*
Master of Technology in Computer Science and Engineering

Best Project Award

- Indian Institute of Technology, Patna *Aug. 2017*
Master of Technology in Computer Science and Engineering

Honors in Computer Science and Engineering

- Faculty of Engineering and Technology, Agra College, Agra *Aug. 2014*
Bachelor of Technology in Computer Science and Engineering

PUBLICATIONS

Conference Papers

1. **Saurabh Srivastava**, Mayur Patidar, Sudip Chowdhury, Puneet Agarwal, Indrajit Bhattacharya, and Gautam Shroff Complex Question Answering on knowledge graphs using machine translation and multi-task learning. In Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics: Main Volume, pages 3428–3439, Online. *Association for Computational Linguistics*.
2. **S. Srivastava**, P. Agarwal, G. Shroff, L. Vig and V. Vikas Capsule Based Neural Network Architecture to perform completeness check for Patent Eligibility Process. 2020 *International Joint Conference on Neural Networks (IJCNN)*, 2020, pp. 1-8, doi: 10.1109/IJCNN48605.2020.9207163
3. T. Saha, **S. Srivastava**, M. Firdaus, S. Saha, A. Ekbal and P. Bhattacharyya Exploring Machine Learning and Deep Learning Frameworks for Task-Oriented Dialogue Act Classification. 2019 *International Joint Conference on Neural Networks (IJCNN)*, 2019, pp. 1-8, doi: 10.1109/IJCNN.2019.8851943
4. **S. Srivastava**, P. Agarwal, G. Shroff and L. Vig Hierarchical Capsule Based Neural Network Architecture for Sequence Labeling. 2019 *International Joint Conference on Neural Networks (IJCNN)*, 2019, pp. 1-8, doi: 10.1109/IJCNN.2019.8852016
5. Swapnil Hingmire, Apoorv Shrivastava, Girish Palshikar, and **Saurabh Srivastava** Experiments with Domain Dependent Dialogue Act Classification using Open-Domain Dialogue Corpora. In Proceedings of the 14th International Conference on Natural Language Processing (ICON-2017), pages 305–311, Kolkata, India. NLP Association of India.

Workshop Papers

1. Himani Srivastava, Vaibhav Varshney, Surabhi Kumari, and **Saurabh Srivastava** A Novel Hierarchical BERT Architecture for Sarcasm Detection. In Proceedings of the Second Workshop on Figurative Language Processing, pages 93–97, Online. *Association for Computational Linguistics*.

2. Himani Srivastava, Prerna Khurana, **Saurabh Srivastava**, Vaibhav Varshney, Lovekesh Vig, Puneet Agarwal, and Gautam Shroff. "Improved Question Answering using Domain Prediction."In *Converse@KDD. 2020*.
3. **Saurabh Srivastava** and Prerna Khurana Detecting Aggression and Toxicity using a Multi Dimension Capsule Network. In *Proceedings of the Third Workshop on Abusive Language Online*, pages 157–162, Florence, Italy. *Association for Computational Linguistics*.
4. **Saurabh Srivastava**, Prerna Khurana, and Vartika Tewari Identifying Aggression and Toxicity in Comments using Capsule Network. In *Proceedings of the First Workshop on Trolling, Aggression and Cyberbullying (TRAC-2018)*, pages 98–105, Santa Fe, New Mexico, USA. *Association for Computational Linguistics*.