

Rochana Chaturvedi

Natural Language Processing Lab
University of Illinois, Chicago

rchatu2@uic.edu
<https://rochanachaturvedi.github.io>

Education

Ph.D. in Computer Science, University of Illinois, Chicago, IL, USA 2021-2024 (*expected*)
Advisor: Prof. Barbara Di Eugenio
Coursework: Research Methods in CS, Natural Language Processing, Causal Inference and Learning, Biomedical and Healthcare NLP, Computer Algorithms, Data and Text Mining. [GPA 4.0]
Masters in Computer Applications, Guru Gobind Singh Indraprastha University, Delhi, India [GPA 4.0] 2006–2009
Bachelors in Science (Physics), Miranda House, University of Delhi, Delhi, India [GPA 4.0] 2003–2006

Research Interests

Natural Language Processing, Machine Learning, AI for healthcare, and Computational Social Science

Publications

- Chaturvedi, R* and Chaturvedi, S* (2022). It's all in the name: A character-based approach to infer religion. Conditionally accepted: *Political Analysis*.
- Chaturvedi R, Saachi, Dhani JS, Joshi A, Khanna A, Tomar N, Duari S, Khurana A, and Bhatnagar V. 2020. Divide and Conquer: from complexity to simplicity for lay summarization, In *Proceedings of the First Workshop on Scholarly Document Processing*, pages 344–355. Available at: <https://aclanthology.org/2020.sdp-1.40.pdf>
- Bhattacharya, A.*, Chaturvedi, R.*, and Yadav, S. (2022, July). LCHQA-Summ: Multi-perspective Summarization of Publicly Sourced Consumer Health Answers. In *Proceedings of the First Workshop on Natural Language Generation in Healthcare* (pp. 23-26). Available at: <https://aclanthology.org/2022.nlg4health-1.3.pdf>

(* indicates equal contribution)

Works in Progress

- “Addressing the Type 2 Diabetes Epidemic: Detection, classification and assessment of personalized treatment alternatives with AI” (supported by DPI research grant) with Barbara Di Eugenio
- “Pandemic and Polarization: Evidence from Social Media” with Sugat Chaturvedi and Elena Zheleva
- “LCHQA-Summ: Multi-perspective Summarization of Publicly Sourced Consumer Health Answers” with Abari Bhattacharya and Shweta Yadav

Work Experience

Research Assistant, University of Illinois, Chicago Jan 2022–Present
Teaching Assistant, University of Illinois, Chicago Aug–Dec 2021
Assistant Professor, University of Delhi, India Jul 2011–August 2021
Associate Engineer, Objective Systems Integrators, Haryana, India Jul 2009–Aug 2010

Awards

SCH student PI, NSF-NIH Smart and Connected Health Workshop 2022
Virtual Grace Hopper Conference scholarship 2022

CRA-WCP Grad Cohort for Women Travel Award	2022
Junior Research Fellowship (JRF), University Grants Commission- National Eligibility Test	2018
Certificate of Excellence, Q2 Outstanding Performer, Objective Systems Integrators	2009

Internships

Summer Faculty Research Fellowship, Indian Institute of Technology, Delhi, India	May–Jul 2017
Intern, Associate Engineer, Objective Systems Integrators, Haryana, India	Jan 2009–Jun 2009
Intern, National Informatics Center, Parliament Informatics Division, Delhi, India	Jun–Jul 2008

Online Certifications

Deep Learning Specialization, Coursera, Stanford & deeplearning.ai Instructor: Prof. Andrew Ng	2019
Game Theory, Coursera, Stanford University & University of British Columbia Instructors: Prof. Matthew Jackson, Prof. Kevin Leyton-Brown, Prof. Yoav Shoham	2017
Design and Analysis of Algorithms, National Program on Technology Enhanced Learning & IIT Madras Instructor: Prof. Madhavan Mukund (ranked in top 5 students)	2016

Academic Service

Reviewer: EACL 2023, ACL-IJCNLP 2022, Drug and Chemical Toxicology journal.
University service: Curriculum and exam setting for undergraduate courses, University of Delhi.
Institutional service: Member, internal administrative committees, Keshav Mahavidyalaya, University of Delhi.
Resource person: Postgraduate Teachers (PGT) Training Program at Kendriya Vidyalaya, Delhi.

Technical Skills

Programming Languages: Python, R, Matlab, Java, C++
Machine Learning and NLP Toolkits: Pytorch, Keras, Tensorflow, Hugging Face Transformers, Deep Graph Library, Scikit-Learn, NLTK, spaCy, Gensim, cTAKES, MetaMap
Natural Languages: Hindi (Native), English (Proficient), Spanish (Elementary)