

# Rochana Chaturvedi

Natural Language Processing Lab  
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## Education

Ph.D. in Computer Science, University of Illinois, Chicago, IL, U.S.A 2021–2025  
Advisor: Prof. Barbara Di Eugenio  
Coursework: Research Methods in CS, Natural Language Processing, Causal Inference and Learning. (GPA 4.0)  
Masters in Computer Applications, Guru Gobind Singh Indraprastha University, Delhi, India 2006–2009  
Bachelors in Science (Physics), University of Delhi, Delhi, India 2003–2006

## Research Interests

Natural Language Processing, Machine Learning, Computational Social Science

## Awards

Junior Research Fellowship (JRF), University Grants Commission- National Eligibility Test 2018  
Certificate of Excellence, Q2 Outstanding Performer, Objective Systems Integrators 2009

## Publications

- 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://www.aclweb.org/anthology/2020.sdp-1.40/>
- Chaturvedi, R., & Chaturvedi, S. (2022). It's all in the name: A character based approach to infer religion, submitted to *Political Analysis*. Available at SSRN 4012431.
- Chaturvedi R. 2014. Sequential Circuits, *Virtual Learning Environment, University of Delhi, India*.

## Works in Progress

- “Addressing the Type 2 Diabetes Epidemic: Detection, classification and assessment of personalized treatment alternatives with AI” (supported by DPI research grant)
- “Pandemic and Polarization: Evidence from Social Media”

## Work Experience

Research Assistant, University of Illinois, Chicago Dec 2021–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 Jun 2009–Aug 2010

## 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

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| Deep Learning Specialization, Coursera, Stanford & deeplearning.ai<br>Instructor: Prof. Andrew Ng  | 2019 |
| Game Theory, Coursera, Stanford University & University of British Columbia<br>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<br>Instructor: Prof. Madhavan Mukund                          | 2016 |

## Academic Service

Reviewer: Drug and Chemical Toxicology journal.  
University service: Curriculum and exam setting for undergraduate courses, University of Delhi.  
Institutional service: Member, 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: Keras, Scikit-Learn, NLTK, spaCy, Gensim  
Natural Languages: Hindi (Native), English (Proficient), Spanish (Elementary)

## References

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| Prof. Barbara Di Eugenio<br>Director of Graduate Studies,<br>Department of Computer Science,<br>University of Illinois, Chicago, IL<br><i>bdi Eugen@uic.edu</i> | Prof. Samir Khuller<br>Department of Computer Science,<br>McCormick School of Engineering,<br>Northwestern University, Evanston, IL<br><i>samir.khuller@northwestern.edu</i> |
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