

# Swapnil Mane

Ph.D. | PMRF Fellow | Indian Institute of Technology Jodhpur

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CONTACT INFORMATION	217-B, CSE, IIT Jodhpur India, 342037 ✉ E-mail:mane.1@iitj.ac.in	Homepage: <a href="https://swapnilsmane.github.io">swapnilsmane.github.io</a> Linkedin: <a href="https://www.linkedin.com/in/swapnil-mane-168567136/">swapnil-mane-168567136</a> YouTube: <a href="https://www.youtube.com/@swapnilmane-iitj">@swapnilmane-iitj</a> Google Scholar: <a href="https://scholar.google.com/citations?user=QWzgkxUAAAAJ&amp;hl=en">SwapnilMane</a>
RESEARCH INTERESTS	Natural Language Processing, Graph Neural Networks, Knowledge Graphs, Large Language Models, Retrieval Augmented Generation, Social Computing	
EDUCATION	<b>Ph.D.</b> , Computer Science and Engineering Indian Institute of Technology Jodhpur Advisors: Dr. Suman Kundu and Prof. Rajesh Sharma Thesis: A Socio-Computational Framework for Modeling User Aggression in Social Media: Dataset, Detection and Forecasting. CGPA: 8.60/10	2021–2026 (expected)
	<b>M.Tech</b> , Computer Engineering Advisors: Dr. Vaibhav Khatavkar College of Engineering Pune Technological University, Pune CGPA: 8.60/10	2019–2021
	<b>B.Tech</b> , Computer Science and Engineering Rajarambapu Institute of Technology, Islampur CGPA: 7.22/10	2015–2019
PUBLICATIONS	<b>Swapnil Mane</b> , Suman Kundu, and Rajesh Sharma. IndicAG: An Explainable Agentic Framework for Indic-Multilingual Multidimensional Aggression Detection, In <i>Proceedings of the ACM Web Conference (WWW 2026)</i> .	
	<b>Swapnil Mane</b> , Suman Kundu, and Rajesh Sharma. TSGAN: Temporal Social Graph Attention Network for Aggressive Behavior Forecasting. In <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , vol. 39, no. 27, pp. 28249-28257 ( <b>AAAI 2025</b> ).	
	<b>Swapnil Mane</b> , Suman Kundu, and Rajesh Sharma. You are what your feeds make you: A study of user aggressive behavior on Twitter. <i>Applied Intelligence</i> 55, 385, 2025.	
	<b>Swapnil Mane</b> , Suman Kundu, and Rajesh Sharma. A Survey on Online Aggression: Content Detection and Behavioral Analysis on Social Media. <i>ACM Computing Surveys</i> 57, no. 7, pp: 1-36, 2025.	
	Vudit Garg, <b>Swapnil Mane</b> , and Suman Kundu. MACO-Sync: Multi-agent Ant Colony Optimization for Synchronized Arrival Coordination. In International Conference on Applied Algorithms, pp. 403-415. Cham: Springer Nature Switzerland, 2026.	
	<b>Swapnil Mane</b> , Vaibhav Khatavkar. CascadeNS: Confidence-Cascaded Neurosymbolic Model for Sarcasm Detection. In <i>International Conference on Recent Advances in Intelligent and Sustainable Technologies (RAIST)</i> , 2026.	
	Vaibhav Khatavkar, <b>Swapnil Mane</b> , and Parag Kulkarni. Event Uncertainty for Twitter Data Using Thematic Context Vector. In <i>NIELIT's International Conference on Communication, Electronics and Digital Technologies</i> , pp. 135-146. Singapore: Springer Nature Singapore, 2024.	
	<b>Swapnil Mane</b> , Vaibhav Khatavkar. Researchers eye-view of sarcasm detection in social media textual content. <i>International Journal of Creative Research Thoughts (IJCRT)</i> . Vol. 9, Issue 8, pp. 150-157, 2021.	
	<b>Swapnil Mane</b> , Vaibhav Khatavkar. Effective feature extraction for intrusion detection systems using non-negative matrix factorization and univariate analysis. <i>SACAIM</i> , 2021.	
EXPERIENCE	<b>Data Scientist</b> in Keydabra Inc., Atlanta, U.S.	Feb. 2021–Mar. 2022

*Advised by:* Srinivas Kilambi

Pattern recognition in datasets using NLP, ML, and deep learning to help make sense of how to improve digital footprints.

**Data Scientist** in OneDot Enterprises Pvt. Ltd., Pune, India  
Political assessment modeling

June 2020–Aug. 2020

Industry: 1+ Years      Research: 5+ Years

TEACHING  
ASSISTANT  
EXPERIENCE

NOC5_CS19 Data Mining, <b>NPTEL</b>	Spring 2025
Instructor: Prof. Pabitra Mitra, IIT Kharagpur	
NOC24_CS120 Social Networks, <b>NPTEL</b>	Fall 2024
Instructor: Prof. Sudarshan Iyengar, IIT Ropar	
CSL7870 Learning on Graphs and its Applications	Fall 2025
Instructor: Dr. Suman Kundu, IIT Jodhpur	
CSL4050 Data Visualization	Spring 2025
Instructor: Dr. Suman Kundu, IIT Jodhpur	
CSL4030 Data Engineering	Fall 2024
Instructor: Dr. Romi Banerjee, IIT Jodhpur	
CSL7640 Natural Language Understanding	Spring 2024
Instructor: Prof. Lipika Dey, IIT Jodhpur	
CSL7670 Machine Learning Fundamentals	Fall 2023
Instructor: Dr. Anand Mishra, IIT Jodhpur	
CSL1010 Introduction to Computer Science	Spring 2023
Instructor: Dr. Palash Das, IIT Jodhpur	
CSL1010 Introduction to Computer Science	Fall 2022
Instructor: Dr. Dip Sankar Banerjee, IIT Jodhpur	
CSL6010 Cyber Security	Spring 2022
Instructor: Dr. Debasis Das, IIT Jodhpur	
CSL3010 Design and Analysis of Algorithms	Fall 2021
Instructor: Dr. Pallavi Jain, IIT Jodhpur	
CT-20008 Principles of Programming Languages	Spring 2021
Instructor: Dr. Vaibhav Khatavkar, COEP, Pune	

CERTIFICATIONS

Applied Natural Language Processing, <b>NPTEL</b>	2021
Deep Learning, <b>NPTEL</b>	2021
Data Science Professional, <b>Coursera</b>	2018
Natural Language Processing with Python, <b>Udemy</b>	2018
Python for Data Science and Machine Learning Bootcamp, <b>Udemy</b>	2018
Prepare Manuscript, <b>Elsevier</b>	2018
Python (Basic), <b>HackerRank</b>	2018
Data Science using Python, <b>MITU Skillologies</b>	2018
Programming, Data Structure And Algorithms Using Python, <b>NPTEL</b>	2018
High-Performance Computing, <b>IIT Bombay</b>	2017

INVITED  
TALKS

Lectures on Foundational Machine Learning at Government Colleges of Engineering Karad, Ratnagiri, and Avasari Khurd , Maharashtra	2024
Talk on Language Meets Intelligence: Real-World Applications of NLP at Government Polytechnic College, Jodhpur	2023
Sessions on Information Technology at Kendriya Vidyalaya, IIT Jodhpur	2023
Talk on Basics of Machine Learning at Pimpri Chinchwad Polytechnic College Pune	2021

RELEVANT COURSEWORK	Advanced Data Structure and Algorithms, Probability Statistics and Queuing Theory, Machine Learning, Social Network Analysis, Natural Language Understanding, Deep Learning	
COURSE PROJECTS	Multilingual ngram-based convolutional network for aspect category detection in online reviews <i>Advised by:</i> Prof. Lipika Dey	 
	Knowledge Distillation: Aggression Detection Using Mini BERT <i>Advised by:</i> Prof. Mayank Vatsa	 
	KnowldgeNet Relationship Classification Using a Pre-trained Model <i>Advised by:</i> Prof. Lipika Dey	 
	Analysis of Author's Abusive Behaviour Community on Twitter <i>Advised by:</i> Dr. Suman Kundu	 
	Contextual Journal Recommendation and Query Search Engine <i>Advised by:</i> Prof. Gaurav Harit	 
ACTIVITIES & SERVICES	Reviewer Journal of Big Data Reviewer Journal of Ambient Intelligence and Humanized Computing Reviewer Discover Data Reviewer Social Network Analysis and Mining Volunteer, ACM IKDD International Conference on Data Science Member, Institution of Engineering and Technology (IET), Pune Member, Indian Society for Technical Education (ISTE), Pune Student Cultural Representative, RIT	2026 2026 2026 2025 2024 2019–2022 2016–2020 2017–2019
AWARDS AND SCHOLARSHIPS	<ul style="list-style-type: none"> <li>• Travel Grant for poster presentation at NetSciX Conference</li> <li>• Outstanding <b>Teaching Assistant Award</b>, CSE, IIT Jodhpur</li> <li>• Got selected for “<b>Prime Minister Research Fellowship</b>” (PMRF, GoI)</li> <li>• Department <b>Excellence Award</b>, CSE, RIT</li> <li>• Institute <b>Best Student of the Year Award</b>, RIT</li> <li>• 1<sup>st</sup> in coding competition, CODE-IT, PVPIT, Sangli</li> <li>• Drama Best Director Award, Purushottam Karandak, Kolhapur division</li> </ul>	Feb. 2025 May 2023 Oct. 2022 Feb. 2019 Apr. 2019 July 2018 Oct. 2018
REFERENCES	<b>Dr. Suman Kundu</b> (suman@dsai.iitm.ac.in) Assistant Professor, DS & AI, IIT Madras <b>Dr. Rajesh Sharma</b> (rajesh.sharma@plaksha.edu.in) Professor, CS & AI, University of Tartu, Estonia & Plaksha University <b>Dr. Lipika Dey</b> (lipikadey@gmail.com) Professor, CSE, Ashoka University & Former Chief Scientist at TCS Research	