

# Swapnil Mane

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

Last update: Jan 27, 2026

|                     |  |   |
|---------------------|--|---|
| CONTACT INFORMATION | 217-B, CSE,<br>IIT Jodhpur<br>India, 342037<br>✉ E-mail:mane.1@iitj.ac.in  | Homepage: <a href="https://swapnilsmane.github.io">swapnilsmane.github.io</a><br>Linkedin: <a href="https://www.linkedin.com/in/swapnil-mane-168567136/">swapnil-mane-168567136</a><br>YouTube: <a href="https://www.youtube.com/@swapnilmane-iitj">@swapnilmane-iitj</a><br>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<br>Indian Institute of Technology Jodhpur<br>Advisors: Dr. Suman Kundu and Prof. Rajesh Sharma<br>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<br>Advisors: Dr. Vaibhav Khatavkar<br>College of Engineering Pune Technological University, Pune CGPA: 8.60/10  | 2019–2021   |
|                     | <b>B.Tech</b> , Computer Science and Engineering<br>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

|  |   |             |
|--|---|-------------|
| TEACHING<br>ASSISTANT<br>EXPERIENCE  | NOC5_CS19 Data Mining, <b>NPTEL</b><br>Instructor: Prof. Pabitra Mitra, IIT Kharagpur   | Spring 2025 |
|  | NOC24_CS120 Social Networks, <b>NPTEL</b><br>Instructor: Prof. Sudarshan Iyengar, IIT Ropar                                       | Fall 2024   |
|  | CSL7870 Learning on Graphs and its Applications<br>Instructor: Dr. Suman Kundu, IIT Jodhpur                                       | Fall 2025   |
|  | CSL4050 Data Visualization<br>Instructor: Dr. Suman Kundu, IIT Jodhpur  | Spring 2025 |
|  | CSL4030 Data Engineering<br>Instructor: Dr. Romi Banerjee, IIT Jodhpur  | Fall 2024   |
|  | CSL7640 Natural Language Understanding<br>Instructor: Prof. Lipika Dey, IIT Jodhpur   | Spring 2024 |
|  | CSL7670 Machine Learning Fundamentals<br>Instructor: Dr. Anand Mishra, IIT Jodhpur  | Fall 2023   |
|  | CSL1010 Introduction to Computer Science<br>Instructor: Dr. Palash Das, IIT Jodhpur   | Spring 2023 |
|  | CSL1010 Introduction to Computer Science<br>Instructor: Dr. Dip Sankar Banerjee, IIT Jodhpur                                      | Fall 2022   |
|  | CSL6010 Cyber Security<br>Instructor: Dr. Debasis Das, IIT Jodhpur  | Spring 2022 |
| CERTIFICATIONS   | CSL3010 Design and Analysis of Algorithms<br>Instructor: Dr. Pallavi Jain, IIT Jodhpur  | Fall 2021   |
|  | CT-20008 Principles of Programming Languages<br>Instructor: Dr. Vaibhav Khatavkar, COEP, Pune                                     | Spring 2021 |
|  | 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        |
| INVITED<br>TALKS   | 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        |
|  | Lectures on Foundational Machine Learning at Government Colleges of Engineering Karad, Ratnagiri, and Avasari Khurd , Maharashtra | 2024        |
| RELEVANT<br>COURSEWORK   | 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        |
| Advanced Data Structure and Algorithms, Probability Statistics and Queuing Theory, Ma- |   |             |

chine Learning, Social Network Analysis, Natural Language Understanding, Deep Learning

|                         |   |   |
|-------------------------|---|---|
| COURSE PROJECTS         | Multilingual ngram-based convolutional network for aspect category detection in online reviews<br><i>Advised by:</i> Prof. Lipika Dey   |   |
|                         | Knowledge Distillation: Aggression Detection Using Mini BERT<br><i>Advised by:</i> Prof. Mayank Vatsa   |   |
|                         | KnowldgeNet Relationship Classification Using a Pre-trained Model<br><i>Advised by:</i> Prof. Lipika Dey  |   |
|                         | Analysis of Author's Abusive Behaviour Community on Twitter<br><i>Advised by:</i> Dr. Suman Kundu   |   |
|                         | Contextual Journal Recommendation and Query Search Engine<br><i>Advised by:</i> Prof. Gaurav Harit  |   |
| ACTIVITIES & SERVICES   | Reviewer Journal of Big Data<br>Reviewer Journal of Ambient Intelligence and Humanized Computing<br>Reviewer Discover Data<br>Reviewer Social Network Analysis and Mining<br>Volunteer, ACM IKDD International Conference on Data Science<br>Member, Institution of Engineering and Technology (IET), Pune<br>Member, Indian Society for Technical Education (ISTE), Pune<br>Student Cultural Representative, RIT   | 2026<br>2026<br>2026<br>2025<br>2024<br>2019–2022<br>2016–2020<br>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<br>May 2023<br>Oct. 2022<br>Feb. 2019<br>Apr. 2019<br>July 2018<br>Oct. 2018  |
| REFERENCES              | <b>Dr. Suman Kundu</b> (suman@dsai.iitm.ac.in)<br>Assistant Professor, DS & AI, IIT Madras<br><b>Dr. Rajesh Sharma</b> (rajesh.sharma@plaksha.edu.in)<br>Professor, CS & AI, University of Tartu, Estonia & Plaksha University<br><b>Dr. Lipika Dey</b> (lipikadey@gmail.com)<br>Professor, CSE, Ashoka University & Former Chief Scientist at TCS Research   |   |