

RESEARCH INTEREST

Theoretical Computer Science, Graph Theory, Artificial Intelligence, Social Network Analysis, Graph Neural Networks, Generative AI in Education, Machine Learning on Graphs.

EDUCATION

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| <ul style="list-style-type: none">• Dhirubhai Ambani Institute of Information and Communication Technology
<i>PhD., Computer Science and Engineering (CSE), Coursework CPI: 9.25/10.00</i>• CSPIT, Changa (University: Gujarat Technological University)
<i>B.E. Computer Engineering (CE), CPI: 7.48/10.00</i> | Gandhinagar,, INDIA
<i>January 2013 - February- 2018</i> | Changa, INDIA
<i>July 2008 - June 2012</i> |
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EXPERIENCE

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| <ul style="list-style-type: none">• Malviya National Institute of Technology (MNIT) Jaipur
<i>Assistant Professor, Department of Computer Science and Engineering</i><ul style="list-style-type: none">◦ Scope of Work: Teaching and Research Work• Adani Institute of Infrastructure Engineering (AIIE)
<i>Assistant Professor, Department of Information and Communication Technology</i><ul style="list-style-type: none">◦ Scope of Work: Teaching and Research Work• K J Campus, Savli
<i>Assistant Professor, Department of Computer Engineering</i><ul style="list-style-type: none">◦ Scope of Work: Teaching | Jaipur, Rajasthan
<i>March 2019 - Current</i> | Ahmedabad, Gujarat
<i>December 2017 - February 2019</i> | Savli, Gujarat
<i>July 2012 - November 2012</i> |
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ACADEMIC TEACHING PORTFOLIO

Advanced Data Structures and Algorithms, Computer Science and Programming, Data Structures and Algorithms, Database Management Systems (DBMS), Discrete Mathematics, Logic in Computing, Python Programming, and Social Network Analysis.

ONLINE TEACHING

- **Massive Open Online Course (MOOC) on [Python Programming](#)**
 - Successfully designed and delivered a comprehensive Python programming course, attracting over **1800** learners to date.
 - Achieved an outstanding average rating of **4.8/5**, reflecting the high quality of instruction and learner satisfaction.
- **YouTube Channel: [CS Simplified](#)**
 - Uploaded more than **150** academic videos related to computer science and online teaching tips.
 - Successfully cultivated a dedicated audience of **3K** subscribers, amassing over **4** lakh views as of **22nd December 2025**.
 - Consistently maintained an exceptional average like-dislike ratio of **97.6%**, demonstrating a high level of viewer engagement and content approval.
- **A Hindi-Centric GPT for Python Programming, First of its Kind in India: [Python Ki Pathshala](#)**
 - Designed and developed Python Ki Pathshala GPT, an AI-powered educational assistant that dynamically generates **personalized examples, real-world applications, and engaging stories** to make Python learning intuitive.
 - Supports learning in **Hindi, English, and Hinglish**, breaking language barriers in Python education.
 - As of **24th February 2025**, facilitated over **1000+** personalized learning conversations, making Python accessible and interactive for diverse learners.

RECOGNITIONS & COLLABORATIONS

- **ChatGPT for Education Newsletter (OpenAI, USA):** Featured among only **seven global educators**, including Dr. Luke Hobson (Assistant Director, Instructional Design, MIT), for the design and development of **Python Ki Pathshala**. [\[Read More\]](#)
- **OpenAI Academy (OpenAI, USA):** Featured among a select group of **100 faculty worldwide** in the **Professors Teaching with AI** global series, highlighting educators reimagining teaching and learning with generative AI. video available here: [\[Watch Video\]](#).
- **University of Oxford (QS World Rank #3, AIEOU):** Author of “**Code or Clicks? Reassessing Programming Skills in an AI driven World**” and **collaborator** with the **AIEOU Interdisciplinary Research Hub**, fostering **research informed, ethical and human centered** approaches to AI in education. [\[Read Blog\]](#)
- **MIT, Cambridge USA (QS World Rank #1):** Invited talk “**AI powered Education: Enhancing Learning, Collaboration, and Research with Humata AI**” delivered to a global academic audience.

JOURNAL PUBLICATIONS

1. S. Rohilla, **M. Jadeja**, E. Pilli, P. Vyas and P. Gehlot, ”CC- GCN: A novel Graph-based approach for Identification and Detection of Autism Spectrum Disorder”, *Multimedia Tools and Applications* (Springer)-2024 [DOI](#)
2. P. Thakur, S. Chouhan and **M. Jadeja**, ”Enhancing Software Code Smell Detection with Modified Cost-Sensitive SVM”, *International Journal of System Assurance Engineering and Management* (Springer)-2024 [DOI](#)
3. R. Saxena, P. Paira and **M. Jadeja**, ”CLUS-BET: Improving Influence Propagation and Classification in Networks using a Novel Seed Selection Technique”, *Social Network Analysis and Mining* (Springer)-2024 [DOI](#)
4. A. Verma, **M. Jadeja** and S. Jayaswal, ”RW-HeCo: A Random Walk and Network Centrality based Graph Neural Network for Community Detection in Heterogeneous Networks”, *Multimedia Tools and Applications* (Springer) 2024 [DOI](#)
5. N. Garg, S. Garg, **M. Jadeja**, Y. Meena, D. Gopalani and G. Chauhan, ”A novel dominating set and centrality based graph convolutional network for node classification”, *Multimedia Tools and Applications* (Springer) 2024 [DOI](#)
6. **M. Jadeja**, R. Muthu and R. Goyal, ”A New Characterisation of Total Graphs”, *Palestine Journal of Mathematics (PJM)* 2024 [DOI](#)
7. P. Thakur, S. Chouhan and **M. Jadeja**, CBReT: A Cluster-Based Resampling Technique for Dealing with Imbalanced Data in Code Smell Prediction”, *Knowledge Based Systems* (Elsevier) Volume :286, 2024 [DOI](#)
8. R. Saxena, S. Patil, A. Verma, **M. Jadeja**, P. Vyas, V. Bhateja, and J. Chun-Wei Lin, ”An Efficient Bet-GCN Approach for Link Prediction”, *International Journal of Interactive Multimedia and Artificial Intelligence (IJIMAI)* (Universidad Internacional de la Rioja) Volume :8(1) / 38-52 / 2023 [DOI](#)
9. A. Verma, R. Saxena, **M. Jadeja**, V. Bhateja and J. Chun-Wei Lin, ”Bet-GAT: An Efficient Centrality based Graph Attention Model for Semi Supervised Node Classification”, *Applied Sciences (Special Issue: Integrated Artificial Intelligence in Data Science)* (MDPI) Volume:13, 2023 [DOI](#)
10. A. Verma and **M. Jadeja**, ”CB-SAGE: A novel centrality based graph neural network for floor plan classification”, *Engineering Applications of Artificial Intelligence*, Elsevier (Elsevier) Volume :126, 2023 [DOI](#)
11. R. Saxena, **M. Jadeja** and V. Bhateja, ”Propagation analysis of COVID-19: An SIR model-based investigation of the pandemic”, *Arabian Journal for Science and Engineering*, Volume:48, pp. 11103–11115, 2023 [DOI](#).
12. **M. Jadeja**, R. Muthu and V. Sunitha, ”Set Labelling Vertices To Ensure Adjacency Coincides With Disjointness,” in *Electronic Notes in Discrete Mathematics*, vol. 63, pp. 237-244, December 2017. [DOI](#)
13. **M. Jadeja** and R. Muthu, ”Uniform Set Labelling Vertices To Ensure Adjacency Coincides With Disjointness,” in *Journal of Mathematical and Computational Science*, vol. 7, no. 3, pp. 537-553, May 2017. [DOI](#)
14. **M. Jadeja** and R. Muthu, ”Labeled Object Treemap: A New Graph-Labeling Based Technique for Visualizing Multiple Hierarchies,” in *Annals of Pure and Applied Mathematics*, vol. 13, no. 1, pp. 49-62, January 2017.[DOI](#) Also appeared in *Proceedings of The 19th Japan-Korea Joint Workshop on Algorithms and Computation (WAAC 2016)*

CONFERENCE PUBLICATIONS

1. R. Saxena and **M. Jadeja**, "Analysing Shifts in Perceptions of Indians During COVID-19 Pandemic by Mining Tweets", 3rd International Conference on Intelligent Communication and Computational Techniques by:IEEE at Jaipur, India, 2023.
2. A. Verma and **M. Jadeja**, "An Efficient Centrality-Based GNN for Community Detection in Dynamic Networks", 4th International Conference on SMART SYSTEMS: INNOVATIONS in COMPUTING by :Springer at Manipal University, Jaipur, India, 2023
3. R. Saxena, **M. Jadeja** and Pranshu Vyas, "An Efficient Influence Maximization Technique Based on Betweenness Centrality Measure and Clustering Coefficient ", 15th International Conference on Computer and Automation Engineering by :IEEE at Sydney, Australia, 2023
4. P. Thakur, **M. Jadeja**, S. Chouhan, "Text Augmentation Based Imbalance Learning for Unstructured Text Data", 4th International Conference on Cybernetics, Cognition and Machine Learning Applications-ICCCMLA by :IEEE at Goa / 73-77 / 2022.
5. **M. Jadeja** and G. Kabra , "Style Transfer for Videos With Audio", Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences: PCCDS 2020 by Springer Singapore, pp. 607-617, 2020
6. R. Saxena, **M. Jadeja** and A. Verma , "Efficient Information Flow Based on Graphical Network Characteristics", Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences: PCCDS 2020 by Springer Singapore, pp. 515-526, 2020
7. A. Verma, **M. Jadeja** and R. Saxena , "Network Structural Analysis Based on Graphical Measures and Metrics" 5th International Conference on Information & Communication Technology for Sustainable Development (ICT4SD 2020) by Springer, pp. 147-156, 2020
8. **M. Jadeja** and R. Muthu, "Edgeless Graph: A New Graph Based Information Visualization Technique", International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy by :Springer-Advances in Intelligent Systems and Computing at Pandit Deendayal Petroleum University, Gandhinagar, 2020
9. **M. Jadeja**, H. Kanakia and R. Muthu , "Interactive Labeled Object Treemap: Visualization Tool for Multiple Hierarchies" in Proceedings of Eighth Edition of International Conference on Frontiers of Intelligent Computing: Theory and Applications, FICTA 2020 by Springer Evolution in Computational Intelligence Advances in Intelligent Systems and Computing at National Institute of Technology Karnataka (NITK), 499-508, 2020
10. **M. Jadeja** and N. Varia, "Perspectives for Evaluating Conversational AI" in *Proceedings of International Workshop on Search-Oriented Conversational AI (<http://scai.info/>) @ACM ICTIR(SCAI' 2017)*, Amsterdam, Netherlands, 2017.
11. **M. Jadeja**, N. Varia and A. Shah, "Deep Reinforcement Learning for Conversational AI" in *Proceedings of International Workshop on Search-Oriented Conversational AI (<http://scai.info/>) @ACM ICTIR(SCAI' 2017)*, Amsterdam, Netherlands, 2017.
12. R. Goyal, **M. Jadeja**, R. Muthu and B. Patel, "A New Characterisation of Total Graphs" in *Proceedings of The 19th Japan-Korea Joint Workshop on Algorithms and Computation(WAAC 2016)*, Hakodate, Japan, 2016.
13. **M. Jadeja** and K. Shah, "Tree-Map: A Visualization Tool for Large Data," in *Proceedings of 1st International Workshop on Graph Search and Beyond @ACM SIGIR(GSB 2015)*, Santiago, Chile, pp. 9–13,2015

BOOKS

1. Reference Book, "Exploring Susceptible-Infectious-Recovered (SIR) Model for COVID-19 Investigation" ISBN:978-981-19-4175-7 published by - Springer Singapore Year: 2022 authors- R. Saxena, **M. Jadeja**, and V. Bhateja

BOOK CHAPTERS

1. S. Rohilla, **M. Jadeja**, and E. S. Pilli, "Do More with Less: Deep Learning in Medical Imaging" In Convolutional Neural Networks for Medical Image Processing Applications, Taylor & Francis, 2022.
2. R. Saxena and **M. Jadeja**, "Network Centrality Measures: Role and Importance in Social Networks." In Principles of Social Networking, pp. 29-54. Springer, Singapore, 2021.

3. A. Verma and **M. Jadeja**, "Temporal Network Motifs: Structure, Roles, Computational Issues, and Its Applications." In **Principles of Social Networking**, pp. 55-70. Springer, Singapore, 2022.
4. T. Rawka and **M. Jadeja**, "A Survey on Graph Neural Network Based Video Recommendation System" In **Deep Learning for Social Media Data Analytics**, Springer, 2022.
5. R. Joshi and **M. Jadeja**, "The Synergy of Clinical Psychology and Affective Computing: Advancements in Emotion Recognition and Therapy", Springer, 2024.

PHD RESEARCH SUPERVISED

Awarded

1. Atul Kumar Verma on **Navigating Real-World Networks: Centrality-Infused Graph Neural Network Paradigms** - Year: 2023.
2. Rahul Saxena on **Novel Techniques to Enhance Influence in Social Networks** - Year: 2023.
3. Praveen Singh Thakur on **Software Code Smell Detection in an Imbalanced Environment** - Year - 2024

Ongoing

1. Neeraj Garg on **Natural Language Processing using Graph Neural Networks**.
2. Shivani Rohilla on **A Learning Framework to Identify and Categorize Brain Disorders using Medical Imaging Techniques**.

PG RESEARCH SUPERVISED

1. Anshuman Yadav on **User Preference Based Fake News Detection** - Year: 2024-25.
2. Simran Setia on **CCBiT-GAT: Closeness centrality Bidirectional Temporal Graph Attention Network for Traffic Forecasting** - Year: 2024-25.
3. Rahul Shah on **Enhancing Cancer Prediction Using a Hybrid GGAT-GCN Network**- Year: 2024-25.
4. Ayush Sharma on **DrainMap: A PnP Optimization Technique for Hybrid Processors** - Year: 2023-2024.
5. Sneha Prajapati on **Influence Maximization in Social Networks** - Year: 2023-2024.
6. Sunny Raj on **Community Detection in Overlapping Networks** - Year: 2023-2024.
7. Toshi Rawka on **Sentiment Analysis for Movie Reviews using Graph Convolution Network** - Year: 2022-2023.
8. Vinodkumar Shirguri on **Influence Maximization in Social Networks using Graph Attention Networks and Different Centrality Measures** - Year: 2022-2023.
9. Saurabh Jayaswal on **Community Detection in Heterogeneous Networks** - Year: 2022-2023.
10. Kuldeep on **Fake News Detection in Social Network using BiLSTM** - Year: 2021-2022.
11. Mohan Singh on **Community Detection in Social Network** - Year: 2021-2022.
12. Rajesh Biswas on **Detection of Hateful Users on Twitter** - Year: 2021-2022.

EXPERT TALKS

1. Talk on **Generative Reasoning: How Prompt Engineering Shapes Innovation in the Age of AI** in International Workshop on **Application of GenAI in Design Thinking, Critical Thinking and Innovation** at UEM Jaipur (Dec 2025)
2. Talk on **AI in Teaching for the NEP Era** in **NEP Orientation and Sensitisation Programme** at UGC Malaviya Mission Teacher Training Center, RTM Nagpur University (Dec 2025)
3. Talk on **AI Driven Research under NEP** in **NEP Orientation and Sensitisation Programme** at UGC Malaviya Mission Teacher Training Center, RTM Nagpur University (Dec 2025)

4. Talk on **Reimagining the Research Process: A Hands on Introduction to Advanced AI Tools** in Invited Research Talk for **Doctoral Scholars** at JRN Rajasthan Vidyapeeth University, Udaipur, Rajasthan (Dec 2025)
5. Talk on **Prompt Engineering: How to Use Open Source LLM Model for Audit Work** in Invited Expert Lecture under a **Capacity Building Training Program** at Indian Audit & Accounts Department, Regional Capacity Building & Knowledge Institute Jaipur (Dec 2025)
6. Talk on **Research Reinvented: Applying AI Tools to Draft, Refine, and Reference Scholarly Work** in FDP on **Redefining Teaching through AI, LMS and Digital Pedagogies** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Nov 2025)
7. Talk on **Automating Academic Workflows with Google Sheets and App Script** in FDP on **Redefining Teaching through AI, LMS and Digital Pedagogies** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Nov 2025)
8. Talk on **Integrated Python Environments: Exploring the Functionalities of Google Colab and Visual Studio Code** in FDP on **Advance Programming using Python** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Nov 2025)
9. Talk on **Research Workflow Automation using AI Tools and App Scripts** in STC on **Open Source Tools for Research** at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Nov 2025)
10. Talk on **Next Generation Research Practice with AI Powered Automation** in FDP on **Research and Publication Ethics** at Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur (Nov 2025)
11. Talk on **Recursion and File Management in Python** in FDP on **Advance Programming using Python** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Nov 2025)
12. Talk on **Exploratory Data Analysis** in FDP on **Advance Programming using Python** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Nov 2025)
13. Talk on **The Craft of Prompt Engineering: Designing Precise and Reliable Interactions with AI Models** in FDP on **Advance Programming using Python** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Nov 2025)
14. Talk on **Applied AI Tools for Daily Life, Communication, and Creativity** in DST sponsored training on **Advanced Information and Communication Technology (ICT) awareness and its usage** at Manipal University, Jaipur (Nov 2025)
15. Talk on **AI Empowered Pedagogy for NEP Ready Classrooms** in **NEP Orientation and Sensitisation Programme** at UGC Malaviya Mission Teacher Training Center, RTM Nagpur University (Nov 2025)
16. Talk on **AI Augmented Research Ecosystems for NEP Focused Academic Innovation** in **NEP Orientation and Sensitisation Programme** at UGC Malaviya Mission Teacher Training Center, RTM Nagpur University (Nov 2025)
17. Keynote on **Creative Intelligence at Work: AI Skills for the Modern Corporate Communicator** in **RefineComm 2025: Refining Skills, Powering Communication** at Indian Oil Corporation Limited (IOCL) Refineries Headquarters, Delhi (Oct 2025)
18. Talk on **Generative AI for Automated Data Science Workflows with Python** in STC on **Data Science and Machine Learning using Python** at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Oct 2025)
19. Talk on **The Art and Science of Prompt Engineering: Designing Effective Interactions for Teaching, Assessment, and Feedback** in FDP on **Redefining Teaching through AI, LMS and Digital Pedagogies** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Oct 2025)
20. Talk on **AI for Curriculum Design and Interactive Learning: Custom GPTs for Smarter Content and Smarter Class** in FDP on **Redefining Teaching through AI, LMS and Digital Pedagogies** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Oct 2025)
21. Talk on **Prompt Engineering and Custom GPTs: Ethical Pathways to Knowledge Discovery** in FDP on **Ethical AI for Knowledge Discovery** at MNIT Jaipur (Organized by E&ICT Academy MNIT Jaipur) (Sep-2025)

22. Talk on **From Draft to Publication: Elevating Research with AI Tools** in Refresher Course in Artificial Intelligence tools in Teaching and learning at Online (organised by UGC Malaviya Mission Teacher Training Center, RTM Nagpur University) (Sep-2025)
23. Talk on **Engaging Classrooms with AI: Tools for Student Interaction and Active Participation** in Refresher Course in Artificial Intelligence tools in Teaching and learning at Online (organised by UGC Malaviya Mission Teacher Training Center, RTM Nagpur University) (Sep-2025)
24. Talk on **AI for Curriculum Design and Interactive Learning: Smarter Content, Smarter Classrooms** in Refresher Course in Artificial Intelligence tools in Teaching and learning at Online (organised by UGC Malaviya Mission Teacher Training Center, RTM Nagpur University) (Sep-2025)
25. Talk on **Prompt Engineering for Education: Crafting Effective Prompts and Custom GPTs for Faculty** in Refresher Course in Artificial Intelligence tools in Teaching and learning at Online (organised by UGC Malaviya Mission Teacher Training Center, RTM Nagpur University) (Sep-2025)
26. Talk on **AI-assisted Content Creation: Using AI for Lecture Notes, Presentations, Curriculum and Study Materials** in Two-Week Training-cum-Workshop on Empowering Management Education and Research through Generative AI and Statistical Insights at Online (organised by MathTech Thinking Foundation) (Sep-2025)
27. Talk on **Hands on: Using AI tools to structure research papers, generate abstracts, summarize results, and format citations** in FDP on AI in Teaching and Learning at Online (Organized by E& ICT Academies at IIT Guwahati, IIT Kanpur, NIT Patna, MNIT Jaipur and IIITDM Jabalpur) (Aug-2025)
28. Talk on **AI Tools for Research Writing & Editing** in FDP on AI in Teaching and Learning at Online (Organized by E& ICT Academies at IIT Guwahati, IIT Kanpur, NIT Patna, MNIT Jaipur and IIITDM Jabalpur) (Aug-2025)
29. Talk on **AI for Student Engagement and Interaction Tools** in FDP on AI in Teaching and Learning at Online (Organized by E& ICT Academies at IIT Guwahati, IIT Kanpur, NIT Patna, MNIT Jaipur and IIITDM Jabalpur) (Aug-2025)
30. Talk on **AI for Curriculum Design and Update, Interactive Reading Tools** in FDP on AI in Teaching and Learning at Online (Organized by E& ICT Academies at IIT Guwahati, IIT Kanpur, NIT Patna, MNIT Jaipur and IIITDM Jabalpur) (Aug-2025)
31. Talk on **Supercharging Research with Generative AI** in FDP on Natural Language Processing (NLP) and its applications in Generative AI at Medicaps University, Indore (Aug-2025)
32. Talk on **Decoding Transformers and LLMs** in FDP on Natural Language Processing (NLP) and its applications in Generative AI at Medicaps University, Indore (Aug-2025)
33. Talk on **From Concepts to Classroom Bots: Implementing Prompts, Deep Models, and Custom GPTs** in FDP on Natural Language Processing (NLP) and its applications in Generative AI at Medicaps University, Indore (Aug-2025)
34. Talk on **AI to Generative AI: Foundational Concepts** in FDP on Natural Language Processing (NLP) and its applications in Generative AI at Medicaps University, Indore (Aug-2025)
35. Talk on **NLP and Generative AI Advances: What's in it for Educators** in FDP on Natural Language Processing (NLP) and its applications in Generative AI at Medicaps University, Indore (Aug-2025)
36. Keynote on **Engineering Intelligence: Prompt Design and Custom GPTs for Industry 4.0 Workflows** in Emerging Research Trends in Engineering (ERTE-2025) (Organised by IEEE Gujarat Section) at Kadi Sarva Vishwavidyalaya, Gandhinagar (Jul-2025)
37. Talk on **Mastering AI for Academic Excellence: Prompt Crafting, Custom GPTs, and Next-Gen Learning Strategies** in Expert talk for 3rd Semester BTech (CSE) Students at Marwadi University, Rajkot (Jul-2025)
38. Talk on **Custom GPTs for Secure AI: Defensive Prompting and Aligned Agent Design** in STC on Cybersecurity Practices and Applications in the Age of Generative AI at Online (Organised by ABV-Indian Institute of Information Technology and Management Gwalior) (Jul-2025)
39. Keynote on **AI-Driven Classrooms: Revolutionizing Assessment and Engagement** in International Workshop on The Impact of Generative AI in STEM: Redefining Research and Professional Practice at Online (Organised by Central University of Punjab and MathTech Thinking Foundation) (Jul-2025)

40. Talk on **Introduction to Excel: Purpose and Everyday Applications** in DST Sponsored Training on "Advanced Information and Communication Technology (ICT) Awareness and its Usage" at Mahatma Gandhi Govt. School, Begas. (Jul-2025)
41. Talk on **Inside Graph Neural Networks: Architectures and Implementation** in Faculty Development Program on Deep Learning at Online (Organised by E& ICT Academy MNIT Jaipur) (Jul-2025)
42. Talk on **GNN Foundations: Purpose, Power, and Real-World Impact** in Faculty Development Program on Deep Learning at Online (Organised by E & ICT Academy MNIT Jaipur) (June-2025)
43. Talk on **Practical Use Cases of Generative AI** in GIAN Course on Introduction to Generative AI Models at MNIT Jaipur (June-2025)
44. Talk on **Machine Learning using Graph: Practical Implementation Session** in FDP on Real-Time Applications using Machine Learning and Artificial Intelligence at Online (organized by EICT academy IIT Roorkee and Poornima College of Engineering Jaipur) (Apr-2025)
45. Talk on **Machine Learning using Graph** in FDP on Real-Time Applications using Machine Learning and Artificial Intelligence at Online (organized by EICT academy IIT Roorkee and Poornima College of Engineering Jaipur) (Apr-2025)
46. Talk on **Graph-Powered Business Intelligence: Centrality Measures in Action** in Expert talk for Business Analytics using Python subject at Sardar Patel Institute of Technology (S.P.I.T.), Mumbai (March-2025)
47. Talk on **Creative Automation: Leveraging Generative AI in Education Development** in FDP in "Creativity & Innovation at Workplace" at JECRC University, Jaipur (Feb-2025)
48. Talk on **Introduction To Deep Learning** in Course on Artificial Intelligence & Cloud Computing at Indian Audit & Accounts Department, Regional Capacity Building & Knowledge Institute Jaipur (Feb-2025)
49. Talk on **Machine Learning Algorithms** in Course on Artificial Intelligence & Cloud Computing at Indian Audit & Accounts Department, Regional Capacity Building & Knowledge Institute Jaipur (Feb-2025)
50. Talk on **Auto ML and Deep Learning: Automating the Data Science Workflow** in ATAL FDP on "Fundamental of Data Science and Ethical Practices" at Online (organized by Department of CSE, Sardar Patel Institute of Technology, Mumbai) (Feb-2025)
51. Talk on **Next-Gen Research Strategies: AI Toolkit** in FDP on "Technology Enabled Teaching, Learning & Process for Institutes" at Online (organized by E&ICT Academy IIT Guwahati) (Feb-2025)
52. Talk on **Next-Gen Work Strategies: AI Toolkit** in FDP on "Technology Enabled Teaching, Learning & Process for Institutes" at Online (organized by E&ICT Academy IIT Guwahati) (Feb-2025)
53. Talk on **Leveraging AI for Assessment and Engagement** in Faculty Development Program on "AI and Virtual Labs Integration in Teaching-Learning Pedagogy" at Vivekananda Global University-Jaipur (Jan-2025)
54. Talk on **Link Prediction in Social Networks** in E&ICT Academy FDP on "Recent Advances in Social Network Analysis" at Indian Institute of Information Technology, Design and Manufacturing (IIITDMJ), Jabalpur (Jan-2025)
55. Talk on **Hands-on: Network Models and Graph Visualizations Using Real-World Datasets** in E&ICT Academy FDP on "Recent Advances in Social Network Analysis" at Indian Institute of Information Technology, Design and Manufacturing (IIITDMJ), Jabalpur (Jan-2025)
56. Talk on **Network Growth Models and Databases** in E&ICT Academy FDP on "Recent Advances in Social Network Analysis" at Indian Institute of Information Technology, Design and Manufacturing (IIITDMJ), Jabalpur (Jan-2025)
57. Talk on **Social Networks: Introduction and Applications** in E&ICT Academy FDP on "Recent Advances in Social Network Analysis" at Indian Institute of Information Technology, Design and Manufacturing (IIITDMJ), Jabalpur (Jan-2025)
58. Keynote on **The Grammar of Intelligence: Crafting Prompts for Smart Data Interactions** in International Conference on Innovations in Data Science (ICIDS 2024) at Manipal University, Jaipur (Nov-2024)
59. Talk on **AI-powered Education: Enhancing Learning, Collaboration, and Research with Humata AI** in Invited Expert for the Generative AI in Education Group at Online-Organized by Dr. Rea Lavi from Massachusetts Institute of Technology (MIT), USA (Sep-2024)

60. Talk on **Role as First Responder and Handling Digital Device (Hands on)- Artificial Intelligence** in Constable Band(Recruits) Basic Training at Intelligence Training Academy, Jaipur (Sep-2024)
61. Talk on **Open Educational Resources (OER)** in 5 Days Faculty Development Program on Enhancing Online Teaching and Learning at Online (Organized by Vivekananda Global University Jaipur) (Sep-2024)
62. Talk on **AI in Academia: Revolutionizing How We Learn, Present, and Understand** in SUPER 30 Digital Skilling & Job Readiness Program at MNIT Innovation & Incubation Center (MIIC) (Sep-2024)
63. Talk on **Coding the Future: Why Computer Science is Your Key to Making a Difference** in Vigyan Jyoti Conclave (DST) at MNIT Jaipur (Aug-2024)
64. Talk on **Innovation/Prototype Validation: Converting Innovation into Start-Up** in Webinar at S.S. Jain Subodh P.G. Mahila Mahavidyalaya, Jaipur (Aug-2024)
65. Talk on **Empowering Research and Professional Tasks: The AI Toolkit for Success** in STTP on Recent Advancement in Artificial Intelligence and Robotics (RAAIR-24) at Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat (July- 2024)
66. Talk on **Graph-Powered Deep Learning: Exploring Deep Learning on Graphs with Real-World Applications** in STTP on Recent Advancement in Artificial Intelligence and Robotics (RAAIR-24) at Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat (July- 2024)
67. Talk on **AI as a Research Partner: Practical Applications for Advancing Professional and Academic Tasks** in Workshop on AI Tools at Department of Artificial Intelligence and Machine Learning Chandubhai S. Patel Institute of Technology, Changa (June-2024)
68. Talk on **Revolutionizing Research and Professional Tasks with AI: Practical Use Cases** in Expert Talk for Ph.D. Program (corporate heads) at JECRC University, Jaipur (June-2024)
69. Talk on **Graph Machine Learning: From Theory to Practical Applications** in STC on Network Science using Python at Department of Computer Science and Engineering, NITTTR, Chandigarh (May-2024)
70. Talk on **iGraph Essentials: Python's Toolkit for Network Analysts** in STC on Network Science using Python at Department of Computer Science and Engineering, NITTTR, Chandigarh (May-2024)
71. Talk on **Decoding Network Influence: Centrality Measures for Identifying Key Nodes** in STC on Network Science using Python at Department of Computer Science and Engineering, NITTTR, Chandigarh (May-2024)
72. Talk on **Navigating SPSS: Fundamental Tools and Techniques for Beginners** in Expert Talk for "Quantitative Techniques & Computer Applications" Subject at JECRC University, Jaipur (April-2024)
73. Talk on **A Closer Look at Excel Treemap: Transforming Data into Visual Stories** in Expert Talk for "Quantitative Techniques & Computer Applications" Subject at JECRC University, Jaipur (Mar-2024)
74. Talk on **Excel Excellence: Crafting, Running, and Editing Macros** in Expert Talk for "Quantitative Techniques & Computer Applications" Subject at JECRC University, Jaipur (Mar-2024)
75. Talk on **Excel Excellence: PivotTables for Powerful Data Analysis** in Expert Talk for "Quantitative Techniques & Computer Applications" Subject at JECRC University, Jaipur(Mar-2024)
76. Talk on **Beyond ANNs: Unveiling CNNs through Theory and Practice on CIFAR-10 in Computational Techniques** Using Artificial Intelligence and Machine Learning for Social Science and Engineering Applications at MNIT Jaipur (Organized by Department of Chemical, CSE and HSS) (Mar-2024)
77. Talk on **Deep Learning Decoded: A Hands-On Introduction to ANNs and Core Concepts in Computational Techniques** Using Artificial Intelligence and Machine Learning for Social Science and Engineering Applications at MNIT Jaipur (organized by Department of Chemical, CSE and HSS) (Mar-2024)
78. Talk on **Mastering Excel: Unleashing the Power of Data Tables and Goal Seek for Strategic Decision-Making** in Expert Talk for "Quantitative Techniques Computer Applications" Subject at JECRC University, Jaipur (Mar-2024)
79. Talk on **The Future is Now: A Deep Dive into AI, Deep Learning, and Their Transformative Applications** in High-End Workshop (KARYASHALA) on Modelling and Optimization in Green Manufacturing at MNIT Jaipur (organized by the Department of Mechanical Engineering) (Feb-2024)

80. Talk on **The Art of Optimization: Exploring Greedy Algorithms, Dynamic Programming, and Car Sequencing** in High-End Workshop (KARYASHALA) on Modelling and Optimization in Green Manufacturing at MNIT Jaipur (organized by the Department of Mechanical Engineering) (Feb-2024)
81. Talk on **Navigating the Depths of AI: Deep Learning Applications and Innovations** in Short Term Course on Machine Learning Using Python at Online (organized by Department of Physics, MNIT Jaipur) (Feb-2024)
82. Talk on **Basics of Python Programming** in Short Term Course on Machine Learning Using Python at Online (organized by Department of Physics, MNIT Jaipur) (Feb-2024)
83. Keynote on **Navigating the AI Revolution: Key Concepts and Groundbreaking Applications** in International multidisciplinary conference on emerging trends and perspectives in research and innovations at S.S. Jain Subodh P.G. Mahila Mahavidyalaya (Feb-2024)
84. Talk on The Art of Decision Making in Excel: Advanced IF, Nested Statements, and More in Expert Talk for "Quantitative Techniques & Computer Applications" Subject at JECRC University, Jaipur (Jan-2024)
85. Talk on Mastering Excel: A Deep Dive into Advanced Formulas and Functions in Expert Talk for "Quantitative Techniques & Computer Applications" Subject at JECRC University, Jaipur (Jan-2024)
86. Talk on **Python's iGraph Package: Unravelling the Essentials for Network Analysis** in STC on Complex Networks Analysis using Python at Department of Computer Science and Engineering, NITTTR, Chandigarh (Jan-2024)
87. Talk on **Connecting the Dots: Network Analysis in Medicine and Natural Language Processing** in STC on Complex Networks Analysis using Python at Department of Computer Science and Engineering, NITTTR, Chandigarh (Jan-2024)
88. Talk on **Beyond Nodes and Edges: Network Analysis in the Architectural Domain** in STC on Complex Networks Analysis using Python at Department of Computer Science and Engineering, NITTTR, Chandigarh (Jan-2024)
89. Talk on **Graph Neural Networks for Data Analytics** in FDP on Data Analytics & Cloud Security at Manipal University Jaipur (Jul-2023)
90. Keynote on **Graph Neural Networks: From Theory to Practice** in Two days workshop on Metaverse, Vision and Language Processing: The Industrial Aspect at Manipal University Jaipur (Feb-2023)
91. Keynote on **A Modern Treatment of the 15 Puzzle** in EICT FDP on Advanced Computational Intelligence Techniques for Engineering and Science Applications at MNIT Jaipur (Jan-2023)
92. Keynote on **NP-Completeness and Approximation Algorithms** in Expert Talk at Poornima College of Engineering, Jaipur (Dec-2022)
93. Keynote on **Information diffusion on Social Networks-Models, Algorithms and their Implementations** in Short Term Course on Social Network Analysis at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Nov-2022)
94. Keynote on **Applications of Graph Neural Networks- Node Classification and Link Prediction on Social Networks** in Short Term Course on Social Network Analysis at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Nov-2022)
95. Keynote on **Introduction to Graph Neural Networks (GNNs)-Graph Convolution Networks (GCN), Graph attention networks (GATs) and GraphSAGE** in Short Term Course on Social Network Analysis at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Nov-2022)
96. Keynote on **Introduction to Deep Learning and Convolution Neural Networks (CNN)** in Short Term Course on Social Network Analysis at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Nov-2022)
97. Talk on **Applications of Graph ML: Room classification on floor plan graphs and Estimated arrival time prediction in Google Maps** in Short Term Course on Machine Learning and Predictive Analysis using Python at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Jul-2022)
98. Talk on **Introduction to Machine Learning with Graphs** in Short Term Course on Machine Learning and Predictive Analysis using Python at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Jul-2022)

99. Talk on **Multivariate Linear Regression** in STC on Machine Learning using Python at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Mar-2022)
100. Talk on **Python for Structural Analysis of Graphs** in STC on Computer Programming using Python at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Feb-2022)
101. Talk on **Introduction to Python-Networkx** in STC on Computer Programming using Python at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Feb-2022)
102. Talk on **Introduction to Linear Regression with One Variable** in STC on Machine Learning using Python at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Mar-2022)
103. Talk on **Node Classification in Social Networks** in STC on Social Networks Analysis at Organised by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Nov-2021)
104. Talk on **Information diffusion on Social Networks – Models, Algorithms and their Implementations** in STC on Social Networks Analysis at Organised by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Nov-2021)
105. Talk on **Overview of Social Networks Analysis** in STC on Social Networks Analysis at Organised by National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh (Nov-2021)
106. Talk on **Introduction to Graph Neural Networks** in STC on Social Networks Analysis at Organised by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Nov-2021)
107. Talk on **Code Generation and Compiler Optimization** in Expert Talk for "Language Processor" Subject at Charotar University of Science and Technology - Changa (Oct-2021)
108. Talk on **Graph Neural Networks (GNNs): Deep Learning on Social Networks (with Hands-on)** in ATAL Faculty Development Program on Network Science: Theory, Challenges and Applications at Online (Organised by Amity School of Engineering & Technology, Amity University Rajasthan) (Aug-2021)
109. Talk on **Introduction to Deep Learning and Convolution Neural Network (CNN) (with Hands-on)** in ATAL Faculty Development Program on Network Science: Theory, Challenges and Applications at Online (Organised by Amity School of Engineering & Technology, Amity University Rajasthan) (Aug-2021)
110. Talk on **Deep Learning on Social Networks** in Workshop at Pandit Deendayal Energy University, Gandhinagar (Apr-2021)
111. Talk on **Introduction to Deep Learning** in Workshop at Pandit Deendayal Energy University, Gandhinagar (Apr-2021)
112. Talk on **Network Centrality Measures** in Workshop at Pandit Deendayal Energy University, Gandhinagar (Apr-2021)
113. Talk on **Introduction to Social Network Analysis** in Workshop at Pandit Deendayal Energy University, Gandhinagar (Apr-2021)
114. Keynote on **Research Directions in Social Network Analysis (SNA)** in International Virtual Conference On Computational Mathematics at Virtual (Organized by Rathinam College of Arts Science) (Jan-2021)
115. Talk on **Research directions in social network analysis(SNA)** in National Workshop on Some Recent Tools in Analysis Under Research at Virtual (organized by Department of Applied Sciences, Chitkara University) (Oct-2020)
116. Talk on **Searching and Hashing** in Short Term Training Program on "Data Structure and Algorithms" at Rajkiya Engineering College Bijnor (Oct-2019).

EVENTS ORGANIZED

1. National Level FDP on **Redefining Teaching through AI, LMS and Digital Pedagogies** at Malaviya National Institute of Technology Jaipur,Jaipur,India from 27-10-2025 to 07-11-2025
2. National Level FDP on **QT-00 and QT-01: Foundations of Quantum Computing and Applications (EICT Online FDP in partnership with AICTE, DST-NQM, IBM and TCS)** at Malaviya National Institute of Technology Jaipur,Jaipur,India from 18-08-2025 to 11-09-2025

3. National Level Short Term Course on **GIAN Course on Introduction to Generative AI Models** at MNIT Jaipur, India from 23-06-2025 to 27-06-2025 (Sponsored By Ministry of Education (MoE), Government of India, as part of the Global Initiative of Academic Networks (GIAN) program)
4. National level FDP on **QT-02: Foundations of Quantum Technologies** (EICT Online FDP in partnership with AICTE, DST-NQM and IBM) at Malaviya National Institute of Technology, Jaipur, India from 11-04-2025 to 03-05-2025
5. National level FDP on **"Quantum Technologies and Applications"** (EICT Winter Online FDP in partnership with AICTE, DST-NQM and IBM) at Malaviya National Institute of Technology, Jaipur, India from 28-02-2025 to 22-03-2025
6. International level Short Term Course on Summer School on **"Artificial Intelligence and Machine Learning for Engineering and Social Science and Research"** at MNIT, Jaipur, India from 04-09-2023 to 08-09-2023.
7. National level Short Term Course on **Android Programming** (Funded by E & ICT Academy) at Jointly organized by IITG, NIT Patna, MNIT Jaipur and IITDM Jabalpur, Online, India from 18-07-2022 to 22-07-2022.
8. National level Short Term Course on **"Natural Language Processing"** (Funded by E & ICT Academy) at Jointly organized by NITP, IIT Roorkee, IIT Kanpur, IIITDM Jabalpur & MNITJ, Online, India from 07-02-2022 to 18-02-2022.
9. National level Short Term Course on **"Android App Development Using Java"** (Funded by E & ICT Academy) at Jointly organized by IITG, IIITDMJ, NITP & MNITJ, Online, India from 23-10-2021 to 01-11-2021.
10. National level Workshop on AICTE Training And Learning (ATAL) Academy sponsored FDP On **"Computer Science and Biology"** at Malaviya National Institute of Technology, Jaipur, India from 18-01-2021 to 22-01-2021.
11. National level Workshop on 5 days Skill Development Workshop on **"Fundamentals of Python Programming Skills"** at MNIT, Jaipur, India from 31-08-2019 to 08-09-2019.
12. National level Workshop on 5 days Skill Development Workshop on **"Data Structure Fundamentals"** at MNIT, Jaipur, India from 10-08-2019 to 18-08-2019.
13. National level Workshop on 5 days Skill Development Workshop on **"Fundamentals of C Programming Skills"** at MNIT, Jaipur, India from 10-08-2019 to 18-08-2019.

ADMINISTRATIVE RESPONSIBILITIES

1. **Centre Co-Incharge, CSAB 2024** in MNIT from 1-4-2024 to Till Date.
2. **Coordinator (Teaching Learning Management System)** in MNIT from 28-04-2023 to Till Date.
3. **Digital Outreach Committee Member** in MNIT from 08-08-2022 to Till Date.
Played a crucial role in achieving remarkable growth of the institute's social media handles: YouTube (**3.4x** reach), Instagram (**4.5x** reach), and Facebook (**1.6x** reach) since August 2022.
4. **Institute Ranking Committee Member** in MNIT from 29-07-2022 to Till Date.
Contributed significantly to the improvement of NIRF 2023 ranking of MNIT.
5. **CACS Web Portal (Coordinator)** in MNIT from 22-03-2021 to 21-03-2022.
6. **NIRF Sub-Committee (Departmental Faculty In-charge)** in MNIT from 17-12-2020 to 16-12-2021.
7. **NBA First Year Academics Committee Member** in MNIT from 16-09-2020 to 15-09-2021.
8. **Faculty Co-Coordinator (Virtual Class Room, Video Surveillance, Digital Library)** in MNIT from 28-07-2020 to 18-07-2022.
9. **Nodal Officer I-stem Portal (Indian Science Technology and Engineering Facility map)** in MNIT from 27-01-2020 to 26-01-2021.
10. **Faculty Advisor (Alumni Magazine "AluMNITimes")** in MNIT from 27-09-2019 to 01-05-2020.

PROFESSIONAL ACTIVITIES

- **Chandubhai S. Patel Institute of Technology, Charusat University** Anand, Gujarat
Board of Studies (BOS) Member, B.Tech (Information Technology) Dec 2022 - Present
- **Chandubhai S. Patel Institute of Technology, Charusat University** Anand, Gujarat
Board of Studies (BOS) Member, B.Tech (AI-ML) Sep 2023 - Present
- **Vishvakarma Skills University** Jaipur, Rajasthan
Board of Studies (BOS) Member, Artificial Intelligence Mar 2024 - Present

PERSONAL ACHIEVEMENTS

- I was offered a travel grant of **400** euros for attending and presenting my work at SCAI 17 workshop which was held at Amsterdam, Netherlands on Oct 1, 2017. The grant was offered by sponsors of the event (Microsoft, Facebook and Google).
- **Jest** 2012 qualified with **241 AIR**.
- Ranked **8th** in Gujarat and **5th** in Vadodara in **10th** board exam.

SKILLS SUMMARY

- **Languages:** C, Python
- **Operating system:** Windows/Linux (Ubuntu)

REFERENCES

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2. Dr. Srikrishnan Divakaran (PhD Co-supervisor)
Associate Professor
Krea University
Email: srikrishnan.divakaran@krea.edu.in
3. Dr. V. Sunitha
Professor
Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)
Email: v_suni@daiict.ac.in