

Name of Teaching Staff	Dr. Shruti Mathur	
Designation	Assistant Professor	
Department	Computer Science and Engineering(Data Science)	
Date of Joining the Institution	25.09.2023	
Professional Membership	IEEE	
	ORCIDid: 0009-0008-4241-6123 Google Scholar id: GJOOGukAAAAJ Linked in profile : https://www.linkedin.com/in/shruti-mathur-a0bb388/	
Area of Interest	Game Theory, LLMs, Natural Language Processing, Big Data Analytics, Soft Computing, Artificial Intelligence.	
Qualifications:		
1. Ph.D. (Computer Engineering) 2. M. Tech (CSE), Rajasthan Technical University, 2015. 3. B.E.(IT) Rajiv Gandhi Prodyogiki Vishwavidhaya,2006.		
Total Experience in Years: 15 Years		
• Assistant Professor, D.J. Sanghvi College of Engineering, Mumbai, from 25.09.2023 to till date. • Assistant Professor, July 2014 –Sept 2023, Assistant Professor Thakur College of Engineering & Technology. (Approved under the University of Mumbai in Information Technology Ref No. TAAS(CT)/ICD/2016-17/14275) • Lecturer, Thakur College of Engineering & Technology, July 2010-May 2011. • Flash Programmer, Sycamore Software solutions, May 08-July 09. • Lecturer, LNCT, Bhopal, May 06-July 08.		
Courses Taught:		
• Intelligent Systems • Applied Game Theory • Advanced Computational Linguistics • Big Data Analytics • Fundamentals of Data Analysis • Soft Computing • Database Management System • Operating System • Data Mining & Business Intelligence		
Projects Guided: B.E .Project: 20+		

Workshop Attended			
Sr. No.	Title of Course	Learning Platform	Course Duration
1	Big Data Analytics	SVNIT, Surat	02 days
2	Data Visualization using Tableau, Power BI & Rubiscape	MIT-ADT, Pune	01 week
3	Research Methodology	IIT B	02 week
FDP			
4	Artificial Intelligence and Robotic Process Automation: Tools, Techniques, Challenges and Solutions.	AICTE -ISTE Sponsored at S.P.I.T. Mumbai	01 week

5	Quantum Computing	ATAL at Thakur College of Engineering & Technology	01 week
6	Responsible AI	AICTE ATAL Academy, PSG College of Technology	01 week
7	Generative AI and Its Applications with Computer Vision	AICTE Training and Learning (ATAL) Academy, Lalbhai Dalpatbhai College of Engineering, Ahmedabad	01 week
8	AI tools and & Prompt Engineering for Outcome based education	SVKM's DJ Sanghvi college of Engineering	01 week
9	Data Base Management System	NPTEL- AICTE	8 weeks
STTP			
7	Introduction to design of Algorithms	IIT KGP	02 week
8	Design and Development of Application for Smart city	Thakur College of Engineering & Technology	02 week
WEBINARS			
Sr. No.	Title of Course	National or International?	Learning Platform/Institute
9	Modern Robotics with Special Focus on Probabilistic Robotics and Robot Operating System	National	Thakur College of Engineering & Technology
10	Artificial Intelligence on emerging areas of technology	National	KJ Somaiya college of engineering and information technology,

International Courses				
Sr. No.	Title of Course	National or International?	Learning Platform	Course Duration
11	Recommendation Engine Bootcamp with 3 Capstone Projects	International	Udemy	04 weeks
12	Linear Regression and Logistic Regression in Python	International	Udemy	04 Weeks
13	Data Analysis & Visualization: Python Excel BI Tableau	International	Udemy	04 Weeks
14	Understanding Research Methods	Coursera (University of London & SOAS University of London)	Coursera	Self-paced

15	Creative Thinking: Techniques and Tools for Success	Coursera (Imperial College London)	Coursera	Self-paced
16	Introduction to Databases	Coursera (Meta)	Coursera	Self-paced
17	University Teaching	Coursera (The University of Hong Kong)	Coursera	Self-paced
18	The Science of Well-Being	Coursera (Yale University)	Coursera	Self-paced
19	Introduction to Artificial Intelligence (AI)	IBM	Coursera	Self-paced
20	AI For Everyone	DeepLearning.AI	Coursera	Self-paced

Publication in International Journal:

- Neha Patwari, Shraddha More, Neeta Patil, Poonam Jadhav, **Shruti Mathur**, Purvi Sankhe, “Fractional–Nonlinear Modeling of Neural Oscillator Dynamics” is accepted in JIM – Journal of Interdisciplinary Mathematics **Scopus Indexed, Q2 Journal**.
- Tanisha Harde, Dhaval Jain, Kaushik Patelia, **Shruti Mathur**, “AI-driven legal argument strength analyzer & counter-argument generator”, published in Artificial Intelligence and Law (Springer) in April 2026. <https://doi.org/10.1007/s10506-026-09521-w>. (**Scopus Q1**).
- **Shruti Mathur**, Gourav Srivastava, “M2PSC: Multilingual sentiment analysis using improved multi-attention based Deep Learning model” in Intelligent Decision Technologies SAGE Journal is published in Aug 2024, ISSN 1872-49. (**Scopus Q3**).
- **Shruti Mathur**, Gourav Srivastava, “Context-Aware Transformer Models for Ambiguous Word Classification in Code-Mixed Sentiment Analysis” in journal of Information Systems Engineering and Management in Jan 2025, ISSN: 2468-4376. (**Scopus Q4**)
- Kanchan Dabre Krish Mehta, Pooja Gandhi, Nilesh Marathe, Shruti Mathur, Pooja Vartak, “Online Student Learning Experience”, Journal of Information Systems Engineering and Management, -ISSN: 2468-4376. (**Scopus Q4**)
- Shruti Mathur, Gourav Srivastava, “Performance Analysis using Machine Learning for Code Mixed Languages in Sentiment Analysis” in International Journal on Advances in Engineering Technology and Science in 2024, ISSN: 2455-3131.
- **Shruti Mathur**, Varun Prakash Saxena, “Improving the Quality of English-Hindi Name Entity Translation”, In International Journal of Computer is published in June 2014 Edition, ISBN: 973-93-80882-45-9.
- **Shruti Mathur**, Sandeep Bankar, Neha Patwari and Sudhir Dhekane, “Use of Cloud computing in Business Ethics” International Journal of Recent Engineering Research and Development (IJRERD) Volume No. 02 – Issue No. 04, ISSN: 2455-8761 www.ijrerd.com, PP. 17-22.

Publication in International Conference:

- Tirth Mehta, **Shruti Mathur**, Nilesh Marathe, Dynamic and Regularized Visual Prompt Tuning for Few-Shot Image Classification, 2025 5th International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT), IEEE.
- Hetansh Shah, Hitarth Bhatt, Jay Topiwala, Hitanshu Shah, Pradnya Saval, **Shruti Mathur**, “Forecasting Inflation and Stock Prices in India’s Energy Sector: a Comparative Analysis of Classical and Deep Learning Models, World Conference on Information Systems for Business Management, Springer Nature Switzerland.
- Meet Kothari, Manav Doshi, Shruti Mathur, “Design and Implementation of an AI-Based Career Advisor Using Cognitive Profiling and Skills Analytics”, 2025 9th International Conference on Inventive Systems and Control (ICISC), IEEE.
- Krish Valecha, Anuradha Yeole, Atharv Salian, **Shruti Mathur**, “Empirical Analysis of Classical and Quantum Algorithms for Portfolio Optimization: Enhancing Financial Decision-Making Through Quantum Computing”, 2024 International Conference on Sustainable Communication Networks and Application, IEEE.
- Shruti Mathur, Samdarshi Kumar, Esha Vijayvargiya, Harsh Vyas, Turning design mockups into code with deep learning, ICISCN, ISBN: 978-1-7329562-6-1, 2021.
- Shruti Mathur, Satpal Singh, Aniket Karna, Prajwal Mishra, SQL using NLP in Virtual Reality, ICISCN, ISBN: 978-1-7329562-6-1, 2021.
- Shruti Mathur, Saurav Rathod, Stuti Shrimal, Kanishk Soni, Live location based vehicle parking system, ICISCN, ISBN: 978-1-7329562-6-1, 2020.
- Shruti Mathur, Abhigyan Nagraj, Swapnil Jaiswal, Harsh Kotak, Tackling Hate Speech, Multicon-2019.
- Shreya Mistry, Nishita Desai, Tanay Sanghavi, Ms. Shruti Mathur, RFID Based Electronic Payment System, MULTICON-W ICCSOD, 2019.
- Shruti Mathur, Vrundali Chitroda, Harsh Kothari, Anisha Pandya, Machine reading of customer feedback, MULTICON-W ICCSOD, 2018.
- **Shruti Mathur**, Varun Prakash Saxena, Hybrid approach to English-Hindi Name Entity Transliteration, In Proceedings of 2014 IEEE Students’ Conference on Electrical, Electronics and Computer Science, 2014.
- Nisheeth Joshi, Iti Mathur and **Shruti Mathur**, Frequency Based Predictive Input System, In Proceedings of International Conference and Workshop on Emerging Trends in Technology, ACM Press, pp 690-693, 2010. ISBN: 9781605588124.
- Nisheeth Joshi and Iti Mathur and **Shruti Mathur**, Text Based Predictive Input System Using Zipf’s Law, In Proceedings of National Conference on Recent Developments in Engineering Mathematics and Information Technology, Organized by Poornima College of Engineering and Institution of Engineers Rajasthan State Chapter. 2009.