

Name of Teaching Staff	Pradnya Joshi	
Designation	Assistant Professor	
Department	Computer Science and Engineering (Data Science)	
Date of Joining the Institution	28.12.2021	
Email ID	pradnya.saval@djsce.ac.in	
Professional Memberships	ISTE (LM136521) Society for Data Science (S4DS)	
Profile Links	Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=59140039100 Google Scholar Link: https://scholar.google.co.in/citations?user=p_bzmk4AAAAJ&hl=en Research Gate Link: https://www.researchgate.net/profile/Pradnya-Saval ORCID: https://orcid.org/0000-0002-0251-1125 Web of Science: https://www.webofscience.com/wos/author/record/ACE-3016-2022 LinkedIn Profile: https://www.linkedin.com/in/pradnya-saval-joshi-930300115/	
Area of Interest	Time Series Analysis, Reinforcement Learning, Web Development, Machine Learning, Big Data Engineering.	
Qualifications:		
1. Pursuing Ph.D. (Computer Engineering), Thakur College of Engineering and Technology, Kandivali (E), Mumbai. 2. M.E. (Computer Engineering), Thakur College of Engineering and Technology, 2018. 3. B.E. (Computer Engineering), Rajiv Gandhi Institute of Technology, 2014. 4. Diploma (Computer Engineering), Babasaheb Gawde Institute of Technology, 2011.		
Total Experience in Years:		
Industry: 2 years		
• Web Developer, Exa India Pvt. Ltd, Borivali (W), Mumbai, 14.07.2014 to 04.03.2016.		
Teaching: More than 9 years		
• Assistant Professor, D. J. Sanghvi College of Engineering, Mumbai, from 28.12.2021 to till date. • Assistant Professor, Thakur College of Engineering and Technology, Mumbai, 25.04.2021 to 14.12.2021 • Assistant Professor, Thakur College of Science, Mumbai, 14.09.2021 to 24.03.2021 • Assistant Professor, Thakur College of Engineering and Technology, Mumbai,		

08.07.2019 to 31.05.2020 • Assistant Professor, Thakur College of Engineering and Technology, Mumbai, 21.01.2019 to 31.05.2019 • Assistant Professor, Thakur College of Science and Commerce, Mumbai, 26.06.2018 to 18.01.2019 • Teaching Assistant, Thakur College of Engineering and Technology, Mumbai, 16.01.2017 to 31.05.2018
Courses Taught: • Time Series Analysis • Reinforcement Learning • Design and Analysis of Algorithms • Foundations of Data Analysis • Data Engineering and Visualization • Big Data Analysis • Applied Data Science • Python Programming • Database Management System • Software Engineering • Web Engineering • Computer Networks • Structured Programming using C
Awards & Recognition • Received the Certificate of Excellence for being recognized as S4DS Chapter of the Year – 2025 at the 10th International Conference on Data Management, Analytics & Innovation (ICDMAI 2026) held from 09/01/2026 to 11/01/2026. • Received the Best Paper Award for the paper titled "Real Time Object Detection with Voice Feedback" at the AIDSP-2023 International Conference on Emerging Trends in Artificial Intelligence and Data Science (Springer Publication) on 21/10/2023.
Projects Guided: • Major Project: 08 • Innovative Product Development: 21
Academic Duties: • Time Table Coordinator • Board of Studies Coordinator • DJS-S4DS Faculty Advisor and Treasurer • Attendance Coordinator

Publication & Conferences:

Journals (National and International): 06

- Atharv Patawar, Mohammed Mehdi, Bhaumik Kore, Pradnya Saval, “A pothole can be seen with two eyes: an ensemble approach to pothole detection”, Machine Vision and Applications, Volume 36, Issue 3, Article 64, 2025. <https://doi.org/10.1007/s00138-025-01679-8>. (SCOPUS)
- Afreen Sorathiya, Pradnya Saval, Manha Sorathiya, “Data-Driven Sustainable Investment Strategies: Integrating ESG, Financial Data Science, and Time Series Analysis for Alpha Generation”, International Journal of Financial Studies (IJFS), Volume 12, Issue 2, Article 36, 2024. <https://doi.org/10.3390/ijfs12020036>. (SCOPUS)
- Pradnya Saval, Dr. Sheetal Rathi, “Digit Recognition on MNIST Dataset using Convolutional Neural Network”, International Journal of Scientific Research and Review (ISRR), Volume 5, Issue 4, pp.110-115, July 2020.
- Pradnya Saval, Dr. Sheetal Rathi, “Categorizing and Labelling of Twitter Dataset using RCNN Model”, International Journal of Scientific Research and Review (SRR), ISSN: 2279-543X, Volume 4, Issue 3, pp.108-115, March 2018 (DOI:10.22214/ijraset.2019.5045)
- Pradnya Saval, Dr. Sheetal Rathi, “Text Categorization with Dynamic Input Length Using Deep Learning – A Review”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5, ISSN: 2321-9653, pp.1797-1799, October 2017 (DOI:10.22214/ijraset.2017.10263)
- Pradnya Saval, Mr. Bhavesh Panchal, “SMS based Data Retrieval for ERP System”, IJSRD - International Journal for Scientific Research & Development, Vol. 2, Issue 2, 2014, ISSN (online): 2321-0613, pp-829-832 (<http://ijsrd.com/articles/IJSRDV2I2187.pdf>).

Conferences (National and International): 12

- 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”, Lecture Notes in Networks and Systems, Volume 1749, pp. 326–335, 2026. https://doi.org/10.1007/978-3-032-13003-7_31. (SCOPUS)
- Tanay Tibrewala, Veer Raje, Pradnya Saval, “Explainability of GNNs for Brain Tumor Analysis”, Lecture Notes in Networks and Systems, Volume 1826, pp. 102–117, 2026. https://doi.org/10.1007/978-3-032-18135-0_9. (SCOPUS)
- Aryan Nayak, Ami Desai, Aman Mehra, Pradnya Joshi, “Microservice-based framework for automated testing of FIX protocol”, International Conference on Advancing Technology in Engineering and Science (ICATES-2025), Xavier Institute of Engineering, Vol. 2025, Iss. 43, pp 8–12, 2025. <https://doi.org/10.1049/icp.2025.4691>.
- Tirth Mehta, Rishi Shah, Tej Ghelani, Pradnya Joshi, “Churn Prediction and Customer Retention Strategies for OTT Platforms Using a Hybrid AI Model” International Conference on Advancing Technology in Engineering and Science (ICATES-2025), Xavier Institute of Engineering, Vol. 2025, Iss. 43, pp 1–7, October 2025. <https://doi.org/10.1049/icp.2025.4690>
- Naman Chheda, Pradnya Saval, “Virtual Sales Assistant: A Chrome Extension for E-commerce Websites”, Proceedings of the IEEE 1st International Conference on Advances in Computing, Communication and Networking (ICAC2N 2024), pp. 1879–1886, 2024. <https://doi.org/10.1109/ICAC2N63387.2024.10895510>. (SCOPUS)
- Virum Ranka, Dwisha Shah, Devam Shah, Pradnya Saval, “Self-Adaptive Smart Lighting System using YOLOv8 and ESP32”, Proceedings of the 10th International Conference on Electrical Energy Systems (ICEES 2024), 2024, <https://doi.org/10.1109/ICEES61253.2024.10776837>. (SCOPUS)
- Krish Valecha, Yash Pandloskar, Sowmya Dadheech, Pradnya Saval, “Intervention Analysis for

Predicting Stock Market using Deep Learning Algorithms and Time Series Analysis”, Proceedings of the 15th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2024), 2024,

<https://doi.org/10.1109/ICCCNT61001.2024.10726057>. (SCOPUS)

- Samarth Tumdi, Dev Patel, Daksh Dholakia, Aaditya Patel, Pradnya Saval, “Morphogenesis of Images using Neural Cellular Automata”, Proceedings of the 15th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2024), 2024. <https://doi.org/10.1109/ICCCNT61001.2024.10725715>. (SCOPUS)
- Vrisha Shah, Krish Bilakhiya, Devam Shah, Kriti Srivastava, Pradnya Saval, “Predictive Modeling of Stock Prices Using Time Series Analysis”, Proceedings of the 15th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2024), 2024. <https://doi.org/10.1109/ICCCNT61001.2024.10724473>. (SCOPUS)
- Harsh Shetye, Vaidehi Shah, Jay Chotalia, Pradnya Saval, “Opportunistic Balancing and Strategic Insights through Deep Reinforcement Learning in Asset Allocation”, Proceedings of the 15th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2024), 2024. <https://doi.org/10.1109/ICCCNT61001.2024.10724528>. (SCOPUS)
- Pradnya Saval, “Basics of networking using TCP/IP model for Web based Applications”, International Conference on Intelligent Computing and Networking, Multicon, February 2020.
- Pradnya Saval, Dr. Sheetal Rathi, “Training of Neural Network for Text Categorization of Dynamic Input Length using Deep Learning”, Mcgraw Hill Education, ISBN:978-0-9994483-8-0, February 2017.

Patent:

Patent Number: 4889

Type of Patent: South African Patent

Title of the Invention: A System and method for evaluating the freshness of fruits using machine learning techniques

Term of Patent: from 20th Dec 2023

Copyright:

Registration Number: SW-19349/2024

Title of Work: Secure Text To SQL By Entity Replacement Using NER Tagging.

Language of Work: Python

Class and description of the work: Computer Software Work the Research Investigates The Possibility Of Allowing Organizations To Utilize Publicly Available Large Language Models, Specifically For Text to SQL Translation, Whilst Also Sticking To The Compliance.

Workshop, lecture series & Conferences Conducted:

- Conducted a session on “Emerging Trends in Data Engineering”, ISTE approved one-week STTP, DJSCE, 13th June, 2024.

STTP/FDP/Workshop/Seminar/Webinar Organised:

- Organizing committee of FDP on, “Agentic AI in FinTech: Autonomous Intelligence for Next-Generation Financial Systems”, Department of Computer Science and Engineering (Data Science), DJSCE, 23rd January and 24th January 2026.
- Organized ISTE approved one-week STTP on “Emerging Trends in Data Engineering”, Department of Computer Science and Engineering (Data Science), 13th June to 20th June 2024.

- Organizing committee of STTP Emerging Technology Conference on Data Science and Intelligent Computing, Thakur College of Engineering and Technology, November 2021, Mumbai.
- Organized Webinar on, “Big Data Analytics”, organized by Department of Computer Science, ZSCTs Thakur College of Science in association with Computer Society of India (February, 2021).
- Organized Webinar on, “Trends in Computer Security”, organized by Department of Computer Science, ZSCTs Thakur College of Science in association with Computer Society of India (February, 2021).
- Organized Webinar on, “Networking and Security”, organized by Department of Computer Science, ZSCTs Thakur College of Science (November, 2020).
- Organized Workshop on, “Trending Python Technologies”, organized by Department of Computer Science, ZSCTs
- Thakur College of Science in association with Computer Society of India (March 2020).
- Organized Workshop on, “Robotics and Coding”, organized by Department of Computer Science, ZSCTs Thakur College of Science in association with Computer Society of India (March 2020).

STTP/FDP/Workshop/Seminar/Webinar Attended or Participated:

Faculty Development Programmes (FDP):

- Completed the Five-day Online Faculty Development Program on AI Tools & Prompt Engineering for Outcome-Based Education organized by the Department of Artificial Intelligence and Machine Learning, SVKM's Dwarkadas J. Sanghvi College of Engineering in association with Pantech Solutions India Pvt. Ltd. from 04/05/2026 to 08/05/2026.
- Participated in the Faculty Development Programme on Agentic AI in FinTech: Autonomous Intelligence for Next-Generation Financial Systems organized by the Department of Computer Science and Engineering (Data Science), SVKM's Dwarkadas J. Sanghvi College of Engineering from 23/01/2026 to 24/01/2026.
- Participated in the 7 Days Online International Faculty Development Program on "Latest Trend and Techniques in Software Engineering: An Industry Perspective" organized by the Department of Computer Science, CHRIST (Deemed to be University), Bangalore from 20/01/2024 to 27/01/2024.
- Participated in the 10 Hours National Faculty Development Program on Business Analytics organized by AISSMS College of Engineering, SJC Institute of Technology and Matrusri Engineering College in collaboration with ExcelR Edtech Pvt. Ltd. from 05/02/2024 to 09/02/2024.
- Participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by the Department of CSE, JNTUK University College of Engineering Narasaraopet in collaboration with Brainovision Solutions India Pvt. Ltd. and AICTE from 21/08/2023 to 25/08/2023.
- Completed the ISTE Approved SF-STTP/FDP Programme on Emerging Technologies in Machine Learning organized by Dwarkadas J. Sanghvi College of Engineering, Mumbai from 30/01/2023 to 03/02/2023.
- Completed the Faculty Development Programme on Machine Learning Operations and its Application organized by the Electronics & ICT Academy, NIT Patna in association with Shri Vile Parle Kelavani Mandal, Mumbai from 13/06/2022 to 17/06/2022 with an Excellent grade.
- Attended the E-Resources Training Programme organized by the Central Library, TCTE Mumbai on 25/05/2021.
- ☐ Completed the Faculty Development Programme on Programming in Python organized by Government Polytechnic, Nanded from 18/05/2021 to 24/05/2021, securing 49/50 in the Python

Refresher Program Test.

- Participated in the 5-Day Faculty Development Programme on Research Skills Development organized by the Department of Information Technology, MVPS's KBT College of Engineering, Nashik from 10/05/2021 to 14/05/2021.
- Participated in the 3-Day Faculty Development Programme on Implementation of National Education Policy (NEP) 2020 organized by Thakur College of Engineering & Technology from 28/04/2021 to 30/04/2021.
- Participated in the 2-Day Faculty Development Programme on Advanced Computing & Communication Technologies for Industry 4.0 organized by the Department of Computer Engineering, D.J. Sanghvi College of Engineering from 12/06/2020 to 13/06/2020.
- Participated in the 1-Week Faculty Development Programme on Engineering Education & the Industry: A Post COVID-19 Perspective organized by MCT's Rajiv Gandhi Institute of Technology, Mumbai from 01/06/2020 to 05/06/2020.
- Participated in the 5-Day Faculty Development Programme on Disruptive Technologies of Industry 4.0 organized by Fr. Conceicao Rodrigues College of Engineering, Bandra, Mumbai from 30/05/2020 to 03/06/2020, securing a score of 90%.
- Participated in the 1-Week Faculty Development Programme on Python 3 organized by the Department of Computer Science & Engineering, Prakasam Engineering College in association with the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT (NMEICT), MHRD, Government of India, from 25/05/2020 to 31/05/2020.
- Participated in the 5-Day Faculty Development Programme on Data Science and Cloud Computing organized by the Department of Computer Science & Engineering, Chebrolu Engineering College from 18/05/2020 to 22/05/2020.

Short Term Training Programmes (STTP):

- Participated in the ISTE Approved Two Weeks Online Short Term Training Programme on Exhilarating Socio-Human Life Using Deep Learning organized by the Department of Information Technology, Vidyavardhini's College of Engineering & Technology, Vasai from 03/07/2023 to 14/07/2023.
- Completed the Two Weeks Online Short Term Training Programme on Data Science and Python approved by AICTE-ISTE and organized by the Department of Computer Science & Engineering, College of Engineering & Technology, Babulgaon (Jh.), Akola in association with the Computer Society of India (CSI), Amravati Chapter from 16/01/2023 to 28/01/2023.
- Participated in the 3-Day Short Term Training Programme (STTP) on Cyber Security & Forensics organized by the Department of Computer Engineering, Thakur College of Engineering & Technology on 23/08/2021, 26/08/2021 and 27/08/2021.
- Participated in the AICTE Sponsored One Week Online Short Term Training Programme (STTP) on Next Generation Communications and Networks organized by the Department of Electronics & Telecommunication Engineering, Thakur College of Engineering & Technology from 14/06/2021 to 19/06/2021.

Coursera Certifications:

- Completed Front-End Web Development with React authorized by The Hong Kong University of Science and Technology and offered through Coursera on 28/04/2022.
- Completed AI Workflow: Machine Learning, Visual Recognition and NLP authorized by IBM and offered through Coursera on 27/06/2022.

AWS Academy Certifications:

- Completed AWS Academy Cloud Architecting organized by AWS Academy on 09/08/2022 (40 Hours).
- Completed AWS Academy Machine Learning Foundations organized by AWS Academy on 21/02/2022 (20 Hours).

NPTEL Certifications:

- Completed the NPTEL-AICTE Faculty Development Programme on Data Mining funded by the Ministry of Education, Government of India from January 2023 to March 2023 (8 Weeks) with a consolidated score of 78% (Elite).
- Successfully completed the NPTEL Online Certification Course on Data Mining conducted by IIT Kharagpur through SWAYAM/NPTEL from January 2023 to March 2023 (8 Weeks) with a consolidated score of 78% (Elite).

Innovation Ambassador (MoE's Innovation Cell):

- Completed the Innovation Ambassador (IA) Training – Advanced Level organized by MoE's Innovation Cell & AICTE during the IIC Calendar Year 2021–22, with the certificate issued on 01/08/2022.
- Completed the Innovation Ambassador (IA) Training – Foundation Level organized by MoE's Innovation Cell & AICTE during the IIC Calendar Year 2021–22, with the certificate issued on 25/07/2022.