



Dayananda Sagar Academy of Technology & Management

(Autonomous Institute under VTU)

Affiliated to **VTU**
Approved by **AICTE**
Accredited by **NAAC** with **A+** Grade
6 Programs Accredited by **NBA**
(CSE, ISE, ECE, EEE, MECH, CV)

Faculty Name	Ruchita Singhania	
Academic Designation	Assistant Professor	
Educational Qualification	B. Tech, M. Tech (PhD)	
Experience in Teaching & Industry	7.4 years	
Date of Joining	19/07/2023	
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Educational Details

- M. Tech in Data Science and Machine Learning from PES University
- M. Tech in Electronics from BMS College of Engineering, VTU
- B. Tech in Electronics & Communication Engineering, JNTU, Hyderabad

Professional Experience

1. Currently working as an Asst. Professor in the Department of Artificial Intelligence and Machine Learning, Dayananda Sagar Academy of Technology and Management from July 2023
2. Worked as an Asst. Professor in Don Bosco Institute of Technology from Jan 2008 to July 2009
3. Worked as an Asst. Professor in Padmasri Dr. B. V. Raju Institute of Technology from July 2006 to May 2007
4. Worked as an Asst. Professor in Jatipita College of Engineering from July 2004 to June 2006

Publications

Scopus Indexed Publications

1. **Ruchita Singhania**, Muttushery Johnson Brian, J. Anushri, L. Hema, Eshaan Khan, "Autonomous Driving Using Deep Reinforcement Learning", Lecture Notes in Networks and Systems, Volume 1827 LNNS, Year 2026, Pages 169-183
DOI:10.1007/978-3-032-18138-1_15
2. **Ruchita Singhania**, A. Prem, D. Ravi Kiran, Dhanush M, and M. Uttham Sai, "Survey on Cyberbullying Detection Using Machine Learning and Deep Learning", Lecture Notes in Networks and Systems, Volume 1827 LNNS, Year 2026, Pages 208-219
DOI:10.1007/978-3-032-18138-1_18

3. Pramod Muppala, Sruthi P, Seema Raj, Lavish Kansal, Neha Tripathi, Ruchita Singhanian, “Optimization-Enabled Information Management Architecture for Smart Digital Enterprises”, 2nd International Conference on Big Data and Machine Learning ICBDMML 2026, Year 2026
DOI:10.1109/ICBDML68582.2026.11544296
4. Priya Nandihal, Sunil Kumar V, Raykhan Razakova, Ruchita Singhanian, Oybek Ruziyev, “CLESQ-ZOA-GCRNN: A Hybrid Deep Learning Framework for Predicting IVF/ICSI Success using Optimized Clinical Features”, International Conference on Innovations in Intelligent Systems Advancements in Computing Communication and Cybersecurity ISAC3 2025, Year 2025
DOI:10.1109/ISAC364032.2025.11156542
5. Ramya Vani Rayala, Chandrakanth Reddy Borra, Vani Vasudevan, Ruchita Singhanian, Srinivas Cheekati, Zokir Mamadiyarov , “Lightweight Deep Learning Framework for Human Activity Recognition: A MobileNet-LS, TM Approach with WHOA Optimization”, International Conference on Innovations in Intelligent Systems Advancements in Computing Communication and Cybersecurity ISAC3 2025, Year 2025
DOI:10.1109/ISAC364032.2025.11156438
6. Keerthi Kumar M, Zahara Alkhafajy, K B V Rama Narasimham, Amit Chaudhary, Ruchita Singhanian, “A Real-Time Traffic Signs Detection Using Multi-Scale Convolutional Neural Network with Dynamic Pruning Strategy”, 2nd International Conference on Intelligent Algorithms for Computational Intelligence Systems IACIS 2025, Year 2025
DOI:10.1109/IACIS65746.2025.11211027
7. Ruchita Singhanian, Sana Badagan, Deeksha Reddy, K Tarun Sai Teja, Chetan Jetty, “Medibuddy - A Healthcare Chatbot Using AI”, Journal of Xidian University, Volume 18, Year 2024, Pages 712-718
DOI:10.5281/Zenodo.13362783

International Conferences:

1. 4th International Conference on Advances in Data Driven Computing and Intelligent Systems – ADCIS 2025

National Conferences:

1. 6th Congress on Intelligent Systems - CIS 2025

Conference Attended

1. “Ninth International Conference on Business Analytics and Intelligence” organized by IIMB, 15 – 17 December 2022

Awards

Global Hackathon Winner organized by Ignitho Technologies, Chennai

Academic Activity

- NAAC Criteria 1 Co-ordinator
- IQAC Co-ordinator
- Cultural Co-ordinator
- MOM coordinator

Faculty Development Activity/Workshops

1. Faculty Enablement Program (FEP) on Agile Methodology from 22nd June 2026 to 26th June 2026
2. 5-days Faculty Immersion Program AI For Educators" from 18th August to 22nd August 2025
3. Faculty Enablement Program (FEP) in Java Programming from 19th January 2026 to 23rd January 2026
4. National Faculty Development Programme on “Research Structuring and Publication Process” from 16th February 2026 to 20th February 2026
5. FDP on Advanced Generative AI and Context Engineering from 18th May 2026 to 22nd May 2026
6. FDP on Agentic AI (Building Autonomous Intelligent Systems) from 22nd December 2025 to 27th December 2025
7. FDP on Data Science with Advanced Generative AI from 7th July 2025 to 18th July 2025
8. 5-days FIP on “Empowered Teachers as the Torch Bearers and Pedagogical leaders” from 18-03-2024 to 22-03-2024
9. 5-days FDP on “Emerging Trends and Advances in Computing Technologies” from 08-01-2024 to 12-01-2024
10. 5-days FDP on “Microsoft Power BI” from 16-11-2023 to 22-11-2023

Contact Details

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