Faculty Profile

1. Name: Rakesh M D



2. Designation: Assistant Professor
3. Qualification: B.E., M.Tech., (Ph.D.)
4. Email/LinkedIn/ORCID: rakeshmd@jssstuniv.in/https://www.linkedin.com/in/rakesh-m-d-0549bb1a2/0000-0001-7649-8923
5. Work Experience: 17 years
6. Specialization: Artificial Intelligence and Deep Learning, Robotics, Embedded Systems, Internet of Things, VLSI
7. Subjects Taught: Microcontroller, AI and ML, Deep Learning, EMS foundation course,
8. Research Guidance:
9. Publications: 15

Journal Articles

[J1] M. D. Rakesh, M. Jeevankumar, and S. B. Rudraswamy, “Implementation of real time root crop leaf classification using CNN on raspberry-Pi microprocessor,” Smart Agricultural Technology, vol. 10, Art. no. 100714, 2025.

[J2] M. D. Rakesh and S. B. Rudraswamy, “AI-powered subterranean crop harvesting stage detection and automation,” Gazi University Journal of Science, vol. 38, no. 4, pp. 1819–1833, 2025.

Conference Papers

[C1] M. D. Rakesh, S. B. Rudraswamy, R. V. Mulgund, and M. Rakshith Kumar, “Deploying lightweight YOLO for real-time sunflower leaf disease detection and severity classification on edge devices,” in Proc. 17th Int. Conf. Advances in Computing, Control, and Telecommunication Technologies (ACT), vol. 2, 2026, pp. 5210–5219.

[C2] M. D. Rakesh, S. B. Rudraswamy, P. Rakshitha, and V. Monika, “Steering-predictive adaptive regenerative braking control for improved vehicle stability in electric vehicles,” in Proc. 17th Int. Conf. Advances in Computing, Control, and Telecommunication Technologies (ACT), vol. 2, 2026, pp. 5201–5209.

[C3] M. D. Rakesh, S. B. Rudraswamy, R. Ranjitha, and M. Vineeth, “A greener approach to industrial automation: Solar-assisted wireless chargeable line follower,” in Proc. 17th Int. Conf. Advances in Computing, Control, and Telecommunication Technologies (ACT), vol. 2, 2026, pp. 5259–5272.

[C4] M. D. Rakesh, S. B. Rudraswamy, V. Patil, and B. R. Amruth Yadav, “Farmer behavior augmented reinforcement learning for smart irrigation,” in Proc. 17th Int. Conf. Advances in Computing, Control, and Telecommunication Technologies (ACT), vol. 2, 2026, pp. 5242–5251.

[C5] M. D. Rakesh, S. B. Rudraswamy, R. Rohan, and M. N. Sinchana, “Driver-mode-based fuzzy logic power split strategy for hybrid electric vehicles,” in Proc. 17th Int. Conf. Advances in Computing, Control, and Telecommunication Technologies (ACT), vol. 2, 2026, pp. 5192–5200.

[C6] O. Jagirdar, M. D. Rakesh, N. Yashaswini, and R. Bajarangbali, “Campus surveying using autonomous drones for crowd monitoring,” in Proc. Int. Conf. Electrical and Electronics Engineering (ICEEE), 2026, pp. 428–431.

[C7] M. D. Rakesh, U. B. Mahadevaswamy, M. Rakshith Kumar, and R. V. Mulgund, “A data-driven machine learning framework for predictive maintenance in electric vehicle subsystems,” in Proc. 2026 Int. Conf. Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), 2026.

[C8] M. D. Rakesh, R. Rajesh, and S. B. Rudraswamy, “Real-time crop sensing and localization for precision agriculture,” in Proc. 2026 IEEE Applied Sensing Conference

(APSCON), listed as 2025 in the supplied source.

[C9] U. B. Mahadevaswamy, M. D. Rakesh, P. Sumanth, and M. Baluchandra, “Smart health tracking with IoT and Android app,” in Proc. Int. Conf. Emerging Technologies in Electronics and Green Energy (ICETEG), 2025.

[C10] M. D. Rakesh, S. B. Rudraswamy, R. Ronitha, and H. R. Shashidhara, “Weed identification in subterranean vegetables using YOLO and Flask framework,” in Proc. 16th Int. Conf. Advances in Computing, Control, and Telecommunication Technologies (ACT), vol. 2, 2025, pp. 1736–1745.

[C11] M. D. Rakesh, H. R. Shashidhara, K. S. Babu, and S. B. Rudraswamy, “Performance analysis of YOLO models for beetroot crop disease detection,” in Proc. 16th Int. Conf. Advances in Computing, Control, and Telecommunication Technologies (ACT), vol. 2, 2025, pp. 15548–15557.

[C12] M. D. Rakesh, R. Ronitha, and S. B. Rudraswamy, “Subterranean vegetable sorting with YOLO models and Flask framework,” in Proc. 2025 Int. Conf. Control, Automation, and Instrumentation (IC2AI), 2025.

[C13] M. D. Rakesh, R. Madhura, R. Shashidhar, and K. H. Krishnappa, “Enhancing classification accuracy and speed with ML-DSP: A game-changer in genomic sequence analysis,” in Proc. 2023 IEEE 3rd Mysore Sub Section Int. Conf. (MysuruCon), 2023.

10. Patents: 01
11. Projects/Consultancy: 01
12. Book(s) Published: Nil
13. FDPs organised/attended:05
14. Achievements:
15. Professional Membership: IEEE