



Pragnya Ranjan Dash, M. Tech.

Designation : Assistant Professor

Department : Department of Computer Science and Engineering

(JOINED THE INSTITUTE IN YEAR 2026)

Contact : 9438451959(M)

Email : pragnya.dash@silicon.ac.in

RESEARCH INTERESTS

- ✓ Machine Learning
- ✓ Deep Learning
- ✓ Image Processing
- ✓ Character Recognition
- ✓ Pattern matching

Academic Qualifications

- ✓ Ph. D. Contd. (CSE), IIIT, Bhubaneswar, India
- ✓ M.Tech. (CSE), Berhampur University, India
- ✓ B.Tech (CSE), Biju Pattanayak University of Technology, India

Teaching Experience/Industrial Experience/Research Experience

- ✓ More than 14 years of teaching experience.

PUBLICATIONS

JOURNAL ARTICLES

- [1]. **P. R. Dash** and R. C. Balabantaray, "An optimized workflow for Odia handwritten character recognition," *Computación y Sistemas*, vol. 29, no. 3, 2025.
- [2]. **P. R. Dash** and R. C. Balabantaray, "Improving Odia handwritten character recognition with super-resolution GAN and Mish-enhanced Xception network," *International Journal of Information Technology*, pp. 1–16, 2025.

- [3]. **P. R. Dash** and R. C. Balabantaray, "Lightweight CNN with Particle Swarm Optimization for Odia and Bangla handwritten script recognition," *SN Computer Science*, vol. 7, no. 1, Art. no. 65, Jan. 2026.

CONFERENCE PAPERS

- [1]. **P. R. Dash**, R. C. Balabantaray, and R. Dey, "An approach for handwritten alphanumeric character recognition: Leveraging CNN for accurate recognition," in *2024 1st International Conference on Cognitive, Green and Ubiquitous Computing (IC-CGU)*, Mar. 2024, pp. 1–6.
- [2]. **P. R. Dash** and R. C. Balabantaray, "TPE-Optimized Lightweight CNN for Handwritten Odia Character and Assamese Numeral Recognition," in *Proc. Regional International Conference on Natural Language Processing (ReglCON)*, Gauhati University, Guwahati, India, Nov. 2025.

ANY OTHER

CERTIFICATION COURSES:

1. NPTEL Certification course on Deep Learning.
2. NPTEL Certification course on Image Processing.
3. NPTEL Certification course on Cryptography and Network Security.
4. NPTEL Certification course on Advanced Computer Architecture.
5. NPTEL Certification course on Computer Architecture.
6. NPTEL Certification course on Database Management Systems.