Mrs. Deepika Rohit Chavan

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Career Objective

Aspiring to work as an Assistant Professor in Electronics Engineering, aiming to share my research expertise, interdisciplinary approach, and innovative teaching methodologies to shape aspiring electronics engineers into skilled professionals, while simultaneously pursuing scholarly activities and contributing to the academic community.

Educational Details

Sr No.	Exam	University/Board	Year	Marks
1	Ph.D.	SUK, Kolhapur	2019- present	--
2	GATE	--	2016	272
3	MTech (Electronics)	RIT, Islampur	2014-2016	7.87 CGPA
4	BE (E & TC)	NDMVP, COE, Nashik, Pune University	2009-2012	63.6%
5	Diploma	MSBTE	2006-2009	83.7%
6	SSC	Nashik Board	2006	78.93%

Experience

- Assistant Professor   2023 – present
  Walchand College of Engineering Sangli.
- Research Fellow (NDF-Scheme)   2019 – 2023
  Walchand College of Engineering Sangli
- Walchand College of Engineering Sangli.   2016 – 2017

Projects

Project Name	Area of Project	Year
• *Ph.D. Thesis* Low Frequency Electrical Energy Disaggregation in NILM Using Machine Learning Approach	AI and Machine Learning	2019-present
• *MTech Dissertation* The Study of Effect of Music Therapy on Brainwave for Stress Recognition	Biomedical and Signal Processing	2015-16
• *BE* A BIO-MEDITRONIC Device for Non-Invasive Measurement	Biomedical and Embedded system	2011-12
• *Diploma* RFID Based Pay and Park System	Embedded system	2008-09

Patent and Copyright

1. Indian Design Patent filed: AI-POWERED SMART APPLIANCE MONITOR, application ID: 422387-001.

2. Copyright filed "FIRE HAWKS OPTIMIZED RADIAL BASIS FUNCTION NEURAL NETWORK BASED FEATURE EXTRACTION AND ON/OFF DETECTION OF HOUSEHOLD APPLIANCES FOR NILM", Diary No: 22003/2024-CO/L

Publications:

- IEDL: Indian Energy Dataset with Low frequency for NILM.
  Energy Reports, Elsevier (SCIE journal), volume 8, 701-709
- A Systematic Review on Low-Resolution NILM: Datasets, Algorithms, and Challenges. Electronic Systems and Intelligent Computing, Springer Nature Singapore (Scopus). Volume 860, P.101-120
- Electric Load Disaggregation using Machine Learning Approach on IEDL Dataset: A Comparative Study, IEEE, 2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS), Coimbatore, India, 2023, pp. 1277-1280
- The human stress recognition of brain, using music therapy, IEEE, 2016 International Conference on Computation of Power, Energy Information and Communication (ICCPEIC), Melmaruvathur, India, 2016, pp. 200-203
- Effect of Music Therapy on A Brainwave for Stress Recognition. International Journal of Innovations in Engineering Research and Technology, 2016, pp. 1-3
- Exploring Education Theme in Teaching Learning Transformation: An Expectation in Software Engineering. International Journal of Educational Research

MOOC Certification

1. Machine learning, **IITM**, NPTEL, Swayam Platform
2. Deep learning, **IIT Ropar**, NPTEL, Swayam Platform
3. Mathematics for Machine Learning, Imperial College London, Coursera
4. Machine-Learning Practical Guide to Modern ML tools, Udemy

Work-shops organized

- One Day Workshop on Antenna Design in HFSS, resource person Dr. Kasturi Patil, Application Engineer ANSYS [HF], Pune

Work-shops/ FDP Attended/Activities/Contribution

Details	Date
• Department Internship Co-ordinator	
• Atal Fdp: Smart Manufacturing Technologies Aligned with Industry 4.0: Challenges and Opportunities, Punjab Engineering College Deemed to Be University	6th to 11th Jan 2025
• FDP on Innovative Teaching Strategies and Tools in Digital Age, by scrollwell	1st April-7th April 2025
• IPR awareness/training program, online mode, The Office of Controller General of Patents, Designs and Trade Marks (CGPDTM), SUK	24th Dec 2024
• Worked as Invigilator NEET exam	4th May
• Worked as organizing committee member in ICCIPC 2025	10th to 11th Mar 2025
• FDP On Electromagnetics: Principles and Applications", At the Indian Institute of Technology, Bombay (IITB) Under the DTE-IITB MOU	9th To 13th, Oct 2023
• Paper Reviewer for IEEE ICECCC, 2024, CMR Institute of Technology Bengaluru	2nd and 3rd May 2024
• Atal Fdp: Emerging Trends in Electric Vehicle, organised by WCE Sangli	8th to 13th, Jan 2024
• Online FDP Emerging Trends and Developments in Simulation and Fabrication of Semiconductor Devices	2nd to 8th May 2024

- 13th India-Japan Science and Technology Conclave: International Conference on Frontier Areas of Science and Technology (ICFAST-2023)   8th And 9th Sept 2023
- Worked as Organising Committee Member, reviewer for NCIPC 2023 organized   15th Dec 2023
- Life skill management, REST Society for Research International   07th to 12th Jun 2021
- Data Analysis with Python, REST Society for Research International   21st to 26th Jun 2021
- Data Analysis with Excel, REST Society for Research International   21st to 25th Jun 2021
- Data science (AI with ML), Kumaraguru College of Technology, Coimbatore   5th to 17th Jul 2021

Achievements and Awards:

- **Topper** in Machine learning Course, examination conducted by **IITM**, on the **NPTEL**, Swayam Platform (2020)
- Best paper award in National Conference for PG, held at RIT (2016)

Skills

- Teaching
- Problem Solving
- Decision Making
- Creative

Personal details:

Date of Birth	: 26th December 1990
Language Known	: English, Hindi, Marathi
Postal Address	: Rajeshwaree Bungalow, Plot No.47-48B, Old Dhamni Road, Vishrambag, Sangli. 416415

Declaration

I hereby declare that the details and information given above are complete and true to the best of my knowledge.

Date:

Place:

Deepika R. Chavan