

Profile

Mrs. Prachi Kunal Patil

Designation: Assistant Professor, Department of Computer Engg.

Qualification: ME (Computer Engineering)

Email: prachi@frcrce.ac.in

Area of Interest:

Artificial Intelligence, Programming languages: (C,C++, JAVA, Python) ,Operating Systems, Internet Programming, Community Engagement Projects (CEP) and Sustainable Solutions

Professional Background:

From July 2006 – till date , Fr. Conceicao Rodrigues College of Engineering, Mumbai

Educational Details:

ME- Computer Engineering – Thadomal Shahani Engineering College, Bandra, Mumbai – Year 2012.

BE – Computer Engineering- Fr. Conceicao Rodrigues College of Engineering, Mumbai- Year 2006.

Administrative Background:

Institute Level Contributions-

1. Currently working as Member of Core Committee for CRCE Alumni Association.
2. Working for multiple teams for NAAC affiliations.
3. Team member in FE admission process.
4. Tedx CRCE Faculty Incharge- from 2017- 2024
5. Ecell CRCE Faculty Incharge- 2018-2019, 2019-2020
6. Worked as Publications Incharge for International Conference - ICAC3-17
7. Worked as Technical Co-ordinator for International Conference , ICAC3-09, ICAC3-11, ICAC3-13, ICAC3-15, ICAC3-19 .
8. Part of Organizing Team of Conceicao Rodrigues Memorial Debate (CRMD) 2016-2017
9. College Magazine 'Fragmag' Incharge 2015-2016
10. Part of Organizing Team of Convocation Ceremonies
11. Worked as Stream Chair for area of Computing under International Conference ,ICAC3 2011.
12. Worked as Contact chair for International Conference ,ICAC3-13.
13. Team member for NBA and NAAC activities.

Department Level Contributions:

1. Currently working as Internship Incharge
 2. Community Engagement Projects and Technology Innovation for Sustainable Development Projects co-ordinator.
 3. Organized and co-ordinated multiple seminars, workshops and Faculty development programs for the department and inter-department level.
 4. Guided various BE, TE and SE projects.
 5. Role as Class teacher 2016-2017 ,2017-2018 and 2021-22 , 22-23
 6. Department Placement Co-ordinator 2015-2016 and 2016-2017
 7. Department Exam Co-ordinator 2012-2013
 8. Department Project Co-ordinator 2012-2013 , 22-23, 23-24, 24-25
 9. Department Time –table Co-ordinator 2011-2012, 2012-2013, 2013-2014
 10. Departmental Documentation incharge- alumni survey, graduate exit survey, students participations, internships and students certifications.
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STTP/Workshops/Seminars Attended-

1. Atal FDP on "The Role of Artificial Intelligence in Sustainable Waste Management" 10-15Feb 2025 conducted by FRCRCE AInDS Dept.
2. Atal FDP on " Impact of urban green spaces in alleviating micro-climate change using geospatial techniques" 17-22 Feb 2025 conducted by Sri Ramakrishna Engineering College.
3. IIC's MoE's Regional Meet on 06th Feb 2024 at Pillai HOC College of Engineering.
4. 5 Day Faculty Patent Development Program conducted by Technotreon Innovation Academy.
5. One week ISTE Approved Short Term Training program on "Research Funding, Publications and IPR: A Journey from Fundamentals to Advance Methodologies" from June 10 to June 14, 2024 organised by DJSEC.
6. ISTE approved FDP on " Blockchain and DLT" by Xavier Institute of Engineering, Mahim from 2nd Jan to 7th Jan 2023.
7. Regional Orientation Workshop for Participating Institutes (PIs)of Unnat Bharat Abhiyan (UBA), March 13, 2021
8. Seminar- "How to equip yourself for higher studies" Organised by CRCE, Student Alumni Committee, 19th November 2020
9. Seminar-Explore the startup dream: plan to execution, Organised by FR. CRCE, Student Alumni Committee, on 20th November 2020

10. Webinar-Goal based Financial Planning and Investing, organised by Fr. CRCE, Student Alumni Committee, on 20th March 2021
11. ISTE approved ,2 Week-STTP on " Internet programming, The Full Stack development approach" ,VCET Mumbai, 14 th June 2020-25 th June 2020.
12. 1 Week STTP on Disruptive Technologies of Industry 4.0”, organised by Fr. CRCE , Dept. Of Computer Engg on 30th May 2020 to 3rd June 2020.
13. ISTE STTP on “"Artificial Intelligence, Machine Learning and Deep Learning: Hands on " ,organised by K J Somaiya Institute of Engineering and Information Technology, Sion from 24th - 29th June 2019
14. ISTE STTP on “ A journey towards Awareness” Organized by Dept of Humanities and Science Dept., CRCE, 1st January to 5th January 2018
15. Workshop on “Innovative Research in Pedagogy with Mini- MOOC’s Blended with Instruction Strategies to Enhance Quality in Higher Education” organized by CRCE in association with THAPAR Univ. Patiyala, 7-8 July,2017
16. FDP on “Stress Management and Yoga for healthy life” organized by Dept of CS and IT, CRCE, 3-4 Feb 2017.
17. FDP on “New Paradigm in Software Development” conducted by Accenture, hosted by Thakur College of Engg., 15th December 2016
18. FDP on “Digital Forensics : Open source tools” conducted by CRCE, Dept of Comp. Engg., 29 -30 January 2016
19. ISTE approved STTP program on "Advance Internet Tech" conducted by IT dept, Fr. CRCE, 5th Jan 2015 to 9th Jan 2015,
20. ISTE approved "Automata Theory and Applications" organized by Fr. CRIT, vashi, 18th-22nd Nov, 2013
21. “Effective Teaching Methodology, Organized by Mission 10X”, from 1st Aug 2011 to 5th Aug 2011
22. “Digital Image Processing and Analysis for Remote Sensing”, Quality Improvement Programme (QIP),Organized by IITB, from 18th July 2011 to 22nd July 2011
23. STTP on “Information Storage Management and Disaster Recovery”, Organized by Vidyalankar Institute of Technology in co-ordination with EMC2 22nd Nov 2010 - 27nd Nov 2010
24. “Research Career Success and Survival Tips”, Organized by Fr. CRCE, 11-12 March 2011
25. “Object Oriented Analysis and Design using UML with Essentials of Rational Software Architect”, 15th April 2009 to 18th April 2009 , Organized by Fr. CRCE and IBM.
26. “Data and Network Security” , Organized by Pillai's Institute of Information Technology, 2006

Industrial Training Programme /Certifications-

1. Company Name- SWQA India

Objective- Learning Software Testing and Tools

Duration- 4 weeks course (4th June 2012- 29th June 2012)

2. Company Name- SWQA India

Objective- Training on Product development life cycle

Duration- 4 weeks (01st June 2017- 30th June 2017)

3.NPTEL online Certification,” Programming in Java”, July-Oct 2019

4.Innovation Ambassador Training (IA) ,”Foundation Level”, conducted by MoE’s Innovation Cell & AICTE, 2021-22.

5. National Initiative for Technical Teachers Training (NITTT) scheme initiated by AICTE and MoE training for teachers working in AICTE approved Technical Institutions Exams.

Papers Published-

1. **“FedCervical: Shedding Light on Cervical Cancer Detection with Federated Learning and Explainable AI”** , Chinmay Kadam, Kyle Dsouza, Ayush Sharma, Prof. Prachi Patil, Prof. Monali Shetty, Vol. 27 No. 4s (2024): in Sustainable Engineering Practices in Medical Laboratories.
2. Pratik Harde, Ibin Babu, Prof. Prachi Patil, Prof. Monali Shetty, **“Optimizing Crop prediction: An agronomic Advisor Application Based on Soil Nutrients”**, European Chemical Bulletin 2023, 12 (Special Issue 7) , 3486-3493 ISSN – 2063-5346, Scopus Elsevier.
3. Amanda R. Saldanha, Ashton A. Serrao, Kashish R. Sharma, Riya J. Kunnumkada, Prof. Monali Shetty, Prof. Prachi Patil, **“Machine Learning Based wages increase through Employee Performance Monitoring”**, HTL Journal, Volume 29, Issue 11, November 2023. ISSN 2023
4. Jonathan Duarte, Shreyas Bhat, Rishabh Gupta, Saikiran Kasturi, Prof. Prachi Patil, Prof. Monali Shetty, **“Blockchain Based Skill Verification System”**, STRAD RESEARCH , Volume 10, Issue 11, November 2023. ISSN: 0039-2049. Doi.org/10.37896/sr10.11/0202023
5. Hudah Ansari, Shreya Palande, Manasvi Patil, Prachi Patil, Monali Shetty, **“Apparel Recommendation and Virtual Try-on System”**, HTL Journal, Volume 29, Issue 12, December 2023. ISSN NO : 1006-6748 , DOI.org/10.37896/HTL29.12/9810 - Journal (Scopus) 2023
6. Rissa Chettiar, Praveen Bhandari, Halden Dmello, Ken Nunes, Prof. Monali Shetty, Prof. Prachi Patil, **“Convergence of Blockchain and Machine Learning for Peer-to-Peer Money Lending”**, Volume 22 Issue 1, 2023 , 1458-1465, Telematique, WOS, ISSN -1856-4194 - Jo 2023

7. Tapulli, R., Shamshi, I., Mudaliar, A. I., Shetty, M., & Patil, P. , "**Employee Document and Skill Verification System Using Polygon Blockchain**". Telematique, 22(01), 1831-1842. (Web Of Science) - Journal 2023
8. Monali Shetty, Deon Gracias, Ryan Valiaparambil, Hisbaan Sayed, Vijay Prajapati, Mahek Intwala, Prachi Patil. (2024). **A Comprehensive System for Sustainable Tree Plantation and Growth Monitoring using Blockchain, AI, and IoT**. International Journal of Intelligent Systems and Applications in Engineering. 2024
9. Becky Nadar, Brita Nadar, Seema Yadav, Prof. Prachi Patil, Prof. Monali Shetty, "**ENHANCING FLOOD RESILIENCE IN MUMBAI: A MACHINE LEARNING-BASED EARLY WARNING SYSTEM**", International Journal of Applied Engineering & Technology, Vol. 6 No.1, Jan 2024
10. Paper Title: "**Restorage-BlockChain Based decentralised Resume storage Application**"
Co-Authors: Pranav Gangurde,mELITA Japhet,Clafacio Lobo, Nilesh Patil
Published in- 2022 IEEE World Conference on Applied Intelligence and Computing (AIC), August 2022
11. Paper Title: "**Expert System for Career Assessment using SVM and 8-Puzzle Game**"
Co-Authors: Steffi F. Andrade, Nishita M. Bhatankar, Nadia M. Dsilva,
Published in- International Journal of Advanced Science and Technology,2020
12. Paper Title: "**Campus Placement Prediction using Machine Learning**"
Co-Authors: Feaba Johnson, Rebecca Dsouza,Joslin Jose

Published in- GIS Science Journal,2021
13. Paper Title: "**Real Time Sentiment Analysis on Twitter Data using Machine Learning**"
Co-Authors: Aditya Alexander, Abdullah Khan, Jayesh Mishra
Published in- GIS Science Journal,2021
14. Paper Title: "**Financial Planner and Asset Allocation Using Machine Learning**"
Co-Authors: Amit Kawad, Moksh Khajanchi, Ambarish Patankar
Published in- Recent Advances and Challenges in Engineering & Management (RACEM 2019) , organised by Vidyalkar Institute, 2019.
15. Paper Title: "**Career Prediction using Support Vector Machine Algorithm**"
Co-Authors- Steffi F Andrade, Nishita M Bhatankar, Nadia M D'silva
Published in- Journal of Emerging Technologies and Innovative Research (JETIR), June 2019, Volume 6, Issue 6
16. Paper Titled- "**Comparison of Text to Image synthesis Algorithms**"
Co-Authors- Akshay Patade, Pranav Dange, Shubham Pawar
Published in - International Journal for Research in Applied Science and Engineering Technology (IJRASET), volume 6, issue IV, April 2018
17. Paper Titled- "**Survey on different techniques of Image Stenography**"
Co-Authors- Moses Fernandez, Chinmay Vanmali, Omkar Shetye

- Published in - International Journal of Computer Applications (IJCA), volume 138- No 3
18. Paper Titled- "**Comparing Transform Domain Techniques and Vector Quantization Techniques for Face Detection and Recognition in Digital Images**"
Published in "International Journal of Computer Applications (0975-8887) Volume 49- No.4, July 2012.
19. Paper Titled- "**Face Detection and Recognition in Digital Images using Transform Domain Techniques**"
Published in "International Journal of Computer Applications (0975-888) Volume 48 - No. 20, June 2012.

Programs Organized:

1. Faculty Development program on 'Android Programming' under Department of Info Tech. and Dept. of Computer Engg on 30th and 31st August 2019.
2. Organized one week STTP on 'Cyber Security on IOT and Cloud' under Department of Information Technology, 2017-2018
3. Organized FDP on "R programming", under Department of Information Technology and Department of Computer Technology, 2015-2016

Competitions:

1. "Transparent Tree Growth Monitoring and Adoption System" participated in YUKTI competition in 2024.
2. "Transparent Tree Growth Monitoring and Adoption System" got their idea registered under MU Ideas in 2024.