

FACULTY PROFILE TEMPLATE FOR WEBSITE

Basic Details:

- **Name:** Dr. P. Roshni Mol
- **Designation:** Assistant Professor
- **Phone Number:**-9789133299
- **Email Id:** roshnip@srmist.edu.in
- **Area of Specialization:** Network Security & Cryptography, Machine Learning, Image Processing.
- **Affiliation:**. Department of Computer Applications , Faculty of Science & Humanities, SRM Institute of Science & Technology, Rampuram

Educational Details:

- **Degree** – Ph.D
- **Area or Subject** – Network Security & Cryptography
- **University** – Periyar University
- **Awarded Year** – 2023
- **Degree** – M.Phil.
- **Area or Subject** – Network Security & Cryptography
- **University** – Periyar University
- **Awarded Year** – 2013
- **Degree** – M.Sc.
- **Area or Subject** – Computer Science
- **University** – Periyar University
- **Awarded Year** – 2012
- **Degree** – B.Sc.
- **Area or Subject** – Computer Science
- **University** – Periyar University
- **Awarded Year** – 2010

Other Details:

Courses:

- ✓ Diploma in Computer Technology
- ✓ Post Graduate Diploma in Computer Technology(PGDCT)
- ✓ Certificate Course in TallyPRO
- ✓ NPTEL-Online Certification- Python for Data Science

Research Interests: Network Security & Cryptography, Machine Learning

Selected Publications:

- ✓ Published paper on “ Affordable and Energy-Efficient Smart Security System with Information Stamping for IoT Networks”, European Chemical Bulletin 12 (Special Issue 4),
- ✓ Published paper on “Multi-Objective Whale Optimized with Recurrent Deep Learning for Efficient Intrusion Detection in High Sensitive Network Traffic”, ICTACT Journal on Communication Technology, Volume-13, No.-2, June 2022, ISSN: 2229-6948. (UGC Care Group I)
- ✓ Published paper on “Classification of Network Intrusion Attacks Using Machine Learning and Deep Learning”, Annals of the Romanian Society for Cell Biology, Volume-25, No.-2, February 2021, ISSN: 1583-6258.
- ✓ Published paper on “Visualization of Vulnerabilities by unmasking windows event logs with elasticsearch and kibana”, International Journal of Advanced Science and Technology, Volume-28, No.-19, December 2019, ISSN: 2005-4238, (SCOPUS Indexed Journal)
- ✓ Published paper on “ A Review on Security Challenges and Issues of big data”, International Journal of Computational Intelligence and Informatics, Volume -6, Issue-4, March 2017, ISSN: 2349 6363
- ✓ Published paper on “An Effective Approach for Hiding Encrypted Messages with Neural Key using LSB Image Steganography”, International Journal of Innovative and Technology and Research, Volume-4, Issue-2, February- March 2016, ISSN: 2320 5547.

Papers Presented:

- ✓ Presented a paper on “A Research on Patient Engagement using Predictive Analysis” in the International Conference on Human Machine Interaction in the Digital Era organized by SRM Institute of Science and Technology, Ramapuram.
- ✓ Presented a paper on “ Analysis of UNSW-NB15 Dataset using Machine Learning Classifiers based on Boruta Feature Selection” in the International Conference on Advanced Computing organized by Bharathiar University, Coimbatore.
- ✓ Presented a paper on “Evaluation of Network Intrusion Attacks using Ultraboost and Multiboostab Classifiers” in the International Virtual Conference on Innovative Research in Humanities, Science and Technology organized by Selvam Arts & Science College, Namakkal
- ✓ Presented a paper on “A Detailed Survey on Role of Artificial Intelligence Algorithms and Nature Inspired Algorithms in Building Intrusion Detection Systems” in the On-line International Conference on Recent Trends in Cyber Security organized by Shrimati Indira Gandhi College, Thiruchirappalli.
- ✓ Presented a paper on “Intrusion Detection System from Machine Learning Perspective” in the International Conference on Trends in Communication & Technology organized by Vivekanandha College for Arts and Science for Women, Thiruchengode.
- ✓ Presented a paper on “Facial Recognition Using Biometrics” in the seminar organized by the Department of Computer Science at Sri Sarada College for Women (Autonomous), Salem.

Working Papers:

Work in Progress:

Academic Experience: 6 years 4 months

Other Professional Experience: nil

Achievements:

Workshops /Seminars/Conferences:

Participated in NPTEL E-Awareness Workshop organized by IIT, Madras.

Participated in two week National Level Virtual Workshop on “Advanced Research Methodology” organized by SRM Institute of Science and Technology, Ramapuram ,Chennai.

Participated in 3rd One Week International Workshop on “Technical Writing using LaTeX (Online)”, organized by VIT- AP University.

Participated in One Week International Short Term Training Programme – VIII on “ Energy and Environment Conservation” organized by Raj Rishi Government Autonomous College.

Participated in IP Awareness/Training Program under National Intellectual Property Awareness Mission organized by SRM Institute of Science and Technology, Ramapuram ,Chennai.

Participated in AICTE Training and Learning Academy Short Term Training on Recent Trends in CSE Phase-II organized by St. Mary’s Women’s Engineering College.

Participated in International Conference on “ Advanced Computing” organized by Bharathiar University.

Participated in International Conference on “Innovative Research in Humanities, Science & Technology” organized by Selvam Arts & Science College.

Participated in International Conference on “Recent Trends in Cybersecurity” organized by Shrimati Indira Gandhi College.

Participated in Global E-Conference on “Smart Innovations in Engineering Systems and Technology” organized by Jagganath Institute of Technology

Participated in One Week Faculty Development Programme on “ Upskill your Resources” organized by Ayya Nadar Janaki Ammal Collee, Sivakasi

Participated in ten days virtual Faculty Development Program on “Recent Trends in Multidisciplinary Research” organized by SRM Institute of Science and Technology, Ramapuram ,Chennai.

Participated in three days Faculty Induction Programme organized by SRM Institute of Science and Technology, Ramapuram.

Participated in Online Faculty Development Program on “Mulitmodal Image Fusion and its Applications” organized by Vellore Institute of Technology, Chennai.

Participated in 5 Days Online National Level Faculty Development Program on “Intellectual Property Rights” organized by Dr. M.G.R. Educational and Research Institute (Deemed to be University).

Participated in One Week Virtual Faculty Development Program on “Emerging Research Trends in Block Chain & Data Science” organized by Dr. M.G.R. Educational and Research Institute (Deemed to be University).

~~Participated in National Level One Week Online Faculty Development Program on “Research Methodology:The Practical~~

Approach” organized by Sinhgad Academy of Engineering, Pune.

Participated in 5 days online National Faculty Development Program on “Deep Dive into Cloud Computing-Case Studies and Industry Practices organized by SRM Institute of Science and Technology, Kattankulathur

Participated in 5-days National Level Online Faculty Development Program on “Artificial Intelligence/Machine Learning/Deep Learning organized by DRK College of Engineering and Technology.

Participated in Webinar on “Financial Planning for Start-ups” organized by SRM Institute of Science and Technology, Ramapuram ,Chennai.

Participated in the Intercollegiate Webinar entitled “Article Writing and Publishing” organized by Sri Sarada College for Women (Autonomous), Salem.

Participated in Webinar on “How to Face Viva-Voce” organized by Shri Shankarlal Sundarbai Shasun Jain College for Women

Participated in Webinar on “Prominence of IPRs and Patents” organized by Sri Sarada College for Women (Autonomous),Salem.

Participated in Webinar on “Research Fellowships in India” organized by Sri Sarada College for Women (Autonomous),Salem.

Participated in Webinar -workshop on “Literature Review and Theoretical Framework” organized by Shri Shankarlal Sundarbai Shasun Jain College for Women

Participated in Webinar on “ Effective Method for Research Publication and Citation” organized by Bishop Heber College

Achievements and Awards:

- ✓ **Qualified for Assistant Professor- UGC NET (June 2019)**
- ✓ **Completed NPTEL Certification for the Course “Python for Data Science” with Elite certification.**

Academic / Professional Membership:

Please send in your latest **PASSPORT SIZE photograph.**

