

Dr. Sharmila S P

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Faculty ID:0198

Education

	Degree	Year	Institute	Specialization
1	PhD	2026	Indian Institute of Technology Indore	AI-ML and Cybersecurity
2	MTech	2013	SIT, Tumakuru affiliated to VTU Belagavi	CSE
3	BE	2007	VTU Belagavi	CSE

Professional Experience

	Date (from-to)	Designation	Organization
1	Jan 2011 to till date	Asst. Professor	SIT Tumakuru
	Aug 2007 to Dec 2010	Lecturer	SIT Tumakuru
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(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

Affiliations of Professional organizations

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Awards and Honors

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Courses Taught

Undergraduate Courses

- Data Structures
- Analysis and Design of Algorithms
- Cryptography and Network Security
- C, C++ and Java Programming

Postgraduate Courses

- Advanced Cryptography
- Ethical Hacking

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
		Nil	

Research Areas

- AI-ML
- Cybersecurity

Sponsored Projects

Ongoing Projects: nil

1. Title:
Funding Agency:
Amount:
Duration:
Role:
2. Title:
Funding Agency:
Amount:
Duration:
Role:

Completed Projects: nil

1. Title:
Funding Agency:
Amount:
Duration:
Role:

2. Title:
Funding Agency:
Amount:
Duration:
Role:

Publications

Journals

- Sharmila S.P, Gupta, S., Tiwari, A., and Chaudhari, N. S. Leveraging Memory Forensic Features for Explainable Obfuscated Malware Detection with Isolated Family Distinction Paradigm, Computers and Electrical Engineering, Volume 123, Part C, April 2025, 110107 (2025). DOI: <https://doi.org/10.1016/j.compeleceng.2025.110107>. (SCIE, IF: 4.9)
- Sharmila S.P, Gupta, S., Tiwari, A., and Chaudhari, N. S. Unveiling evasive portable documents with explainable Kolmogorov Arnold Networks resilient to generative adversarial attacks., Applied Soft Computing, 9, 21 - 26 (2025). DOI: <https://doi.org/10.1016/j.asoc.2025.113537>. (SCIE, IF: 6.6)
- SP Sharmila, HP Moger, "An operative application of distributed ledger technology for banking domain" International Journal of Computer Science and Mobile Computing 10 (7), 68-75
- RN Sagar, SP Sharmila, BV Suma, "Smart home intruder detection system" International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 6 Issue 4 Pages 2278-1323
- Veeraj R Singh, SP Sharmila, Narendra S Chaudhari, "A Study on Analysis of Malware in Android Applications" International Journal for Research in Applied Science & Engineering Technology (IJRASET)ISSN: 2321-9653; Volume 10 Issue XI Nov 2022
- KV Charan, SP Sharmila,"Customizing AOSP For Different Embedded Devices And Integration at Application Layer". International Journal of Advance Foundation and Research in Computer (IJAFRC)Volume 1, Issue 6, September 2014. ISSN 2348 - 4853

In Conferences / Conference Proceedings

- Sharmila, S. P, Tiwari, A. and Chaudhari, N. S “Obfuscated malware detection using multi-class classification”., In IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)(IEEE), India, pp. 170-175, Dec 2023, DOI =“10.1109/CCEM60455.2023.00034”.
- Sharmila, S. P, Sharma, A., Chaudhari, S., Tiwari, A. and Chaudhari, N. S. “MaxVote Classifier-Based Diversified Ensemble Model for Identifying Malicious Activity with Few-Shot API Data”., In IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE), Chennai, India, 2024, pp. 275-280, DOI = “10.1109/WIECON-ECE64149.2024.10914882.”.
- Sharmila, S. P, Tiwari, A. “Leakage-Free Multiclass Stacked Ensemble of Functional and Rule-based Models” 2026 IEEE World Congress on Computational Intelligence (WCCI 2026) in Maastricht, The Netherlands
- SP Sharmila, Aruna Tiwari, "PDFInspect: A Unified Feature Extraction Framework for Malicious Document Detection" 2026 18th International Conference on COMMunication Systems and NETWORKS (COMSNETS) IEEE
- SP Sharmila, Aruna Tiwari, Narendra S Chaudhari, "Enhanced Cyber Threat Intelligence by Network Forensic Analysis for Ransomware as a Service (RaaS) Malwares", 7th World Conference on Artificial Intelligence: Advances and Applications (WCAIAA 2026) Organized by National Forensic Sciences University Goa Campus, India Technically Sponsored by Soft Computing Research Society January 30-31, 2026
- SP Sharmila, Swayam Pandey, Aparajita Chaurasia, Narendra S Chaudhari, "Malware Detection Using Hybrid Vision Transformer with CNN backbone" 2025 International Conference on Emerging Techniques in Computational Intelligence (ICETCI) Pages 1-7 IEEE
- SP Sharmila, Amiti Sharma, Swati Chaudhari, Aruna Tiwari, Narendra S Chaudhari "MaxVote Classifier-Based Diversified Ensemble Model for Identifying Malicious Activity with Few-Shot API Data" 2024 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE) Pages 275-280 IEEE
- SP Sharmila, Aruna Tiwari, Narendra S Chaudhari, "Obfuscated malware detection using multi-class classification" 2023 IEEE International Conference on Cloud Computing in Emerging Markets (CCEM) Pages 170-175 IEEE

- SP Sharmila, P Shukla, NS Chaudhari, "A distinguished method for network intrusion detection using random initialized viterbi algorithm in hidden Markov model" 2022 OITS International Conference on Information Technology (OCIT), 273-277
- SP Sharmila, NS Chaudhari, "Conceptual study of prevalent methods for cyber-attack prediction" Expert Clouds and Applications: Proceedings of ICOECA 2022, 631-641
- KV Charan, SP Sharmila, AS Manjunath, "Customizing AOSP for different embedded devices" 2014 International Conference on Computing for Sustainable Global Development (INDIACom) Pages 259-264 IEEE
- G Jagadamba, SP Sharmila, Thejas Gouda "A secured authentication system using an effective keystroke dynamics" Emerging Research in Electronics, Computer Science and Technology: Proceedings of International Conference, ICERECT 2012 Pages 453-460 Springer India

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Book Chapters

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Books

Discrete Mathematical Structures, Narendra S Chaudhari, S P Sharmila
book AICTE e-Kumbh, Year 2024, Pages

Editorial

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Reviewer of Journals

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(Please give details in IEEE format)

Editor/ Reviewer of Journal

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Patents

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Invited Lectures, talks and workshops

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