

Name: Ms. S. Shanthi

Current Position: Assistant Professor, Department of Computer Application (Shift II),
Auxilium College for Women (Autonomous), Vellore (since academic year 2024–25)

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Academic and Professional Background

- **Qualifications:** M.C.A., M.Phil., SET
 - **Teaching Experience:** Over 13 years of collegiate teaching, academic leadership, and curriculum development in Computer Science and Applications
 - **Specialization:** Algorithms, .NET Programming, Internet of Things, Supercomputing, Data Transmission, Cryptography, Big Data
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Professional Roles and Contributions

- Department Association Activity Coordinator
 - University paper setter, examiner, and academic event organizer
 - College Discipline Committee Member
 - Mentor and guide for promoting student research initiatives
 - One of the organizing member of seminars, workshops and Conferences for the department.
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Research Projects, Publications, and Patents

- **Research Guidance:** Supervised 3 M.Phil Students and number of PG Students

- **Book Chapter:** “Graph-Based Risk Analysis Using Graph Neural Networks for Mapping Cyber Threat Propagation in Large-Scale Networks,” in Artificial Intelligence in Cybersecurity for Risk Assessment and Transparent Threat Detection Frameworks, RADemics Research Institute, ISBN: 978-93-49552-02-9 (2025)
 - **Patents:**
 1. “AI and IoT-Based Smart Agriculture System for Crop Monitoring and Pest Control Technology,” Application No. 202541016495 A, Patent Office Journal No. 10/2025, published 07-03-2025
 2. “Maximum Capacity Estimation Model for Smart Apartment Management Using Wireless Sensor Network,” Application No. 202241034936, published 24-06-2022
 3. “Smart IoT based Mirror,” Application No. 381772-001, filed 19-03-2023
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- **Recent Academic Engagements and Events (2024–25)**
 - ✓ Seminar: “Building Alliances for Empowerment and Transformation of Transgenders,” Tuena Hall, Don Bosco, Gandhi Nagar, August 2024
 - ✓ FDP: “Beyond Boundaries—Driving Innovation in Research,” Auxilium College and NEISSR, Dec 2024
 - ✓ “Futuristic Pathways in Technology & Computational Methodologies,” Mary Matha College, Jan 2025
 - ✓ “Entrepreneurship and Innovation in Higher Education Institutions,” Patrician College of Arts and Science, Feb 2025
 - ✓ Salesforce Platform Developer 1 FDP, Auxilium College, Feb 2025
 - ✓ “Advancing Education through AI-Driven and Technology Enhanced Pedagogies,” Sacred Heart College, August 2025
 - ✓ International Workshop: “Generative AI & Prompt Engineering for Next-Gen Innovators,” Sacred Heart College, August 2025
 - ✓ Conference Paper Presented: “Green AI: Energy-Efficient AI for a Sustainable Future,” SASDF-2025, Sree Abiraami Arts and Science College for Women, August 2025
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- **Skills and Strengths**

- ✓ Academic leadership, technological innovation, curriculum development, ICT-enabled pedagogy
 - ✓ Research design, grant writing, event organization, and interdisciplinary collaboration
 - ✓ Student mentoring, professional development event facilitation, and active institutional participation
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- **Details of Publications:**

- **“A survey on substantial super computers”**, Published in International Journal of Engineering and Technology, for Volume: 07 Issue: 09, Sep 2020.
 - **“Multi-Path Access Transmission control Protocol”**, Published in RIETMA-2019, 5th National Conference on Recent Innovations in Engineering, Technology Management & Applications, ISBN No: 978-81-938024-1-0.
 - **“Light Weight Dynamic User Accessibility and Multi Secrete Sharing Scheme for Mobile”** for Volume -5, special Issue -4, Feb 2018 in IJARTET.
 - **“Recognition of Lane using Millimeter Wave Radar”** for Volume -5, special Issue -4, Feb 2018 in IJARTET.
 - **“Cheating Mechanism in Virtual Cryptography a Novel Method with Efficient Halftoned Image with SBR Technique by sealing the Algorithm”** for Volume-4, Issue-3, Feb 2018 in IJSRCSEIT.
 - **“Transmission of Data using Distribution of Secure Key”** for Volume -5, Issue -2, Feb 2018 in IRJET.
 - **“Analysis Of Different Steganography Algorithms And Security Issues”** for Volume -8, Issue -1, July 2017 In IJRDT.
 - **“Decrypt And Encrypt The Image In Cryptographic Algorithm HS Based RDH And LSB By Using Asymmetryc Crptography Public Key Cryptosystem”** for Volume -4, Issue -12, Dec 2017 In IJRDT.
 - **“Storage Solution For Big Data Using Bulk IO Dispatch And Hard Disk Drive”** For Volume -4, Issue -12, Dec 2017 In IJRDT.
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- **CONFERENCE, WORKSHOP, FACULTY DEVELOPMENT PROGRAMMES, SEMINAR & WEBINAR:**

Attended good number of Conferences, Workshops, Faculty Development Programmes, Seminar and Webinar, at National, International Levels. Stated few of them

- Participated in International conference on “Advancements in Artificial Intelligence and Computer Vision(AAICV)” at Arignar Anna Government Arts College(W), Walajapet on 23.02.2024.
- Participated in “8 Days National Level Online Faculty Development Program on Research Methodology using ChatGPT and AI tools” conducted by Lincoln University College Marian Research Centre(LUC MRC) of Marian College Kuttikanam(Autonomous), Kerala, during 21.09.2023 to 29.09.2023.
- Presented a paper “Novel Bayesian Optimization based Machine Learning Framework for Covid 19 Detection from Inpatient Facility Data” with ISBN: 978-93-93144-01-0 at International conference on Research, Innovation and Entrepreneurship for sustainable Economic Development On 07.09.2022 , Organized by Patrician College of Arts and Science in association with Kongu Arts and Science College, Erode.
- Participated in International conference on “Research, Innovation and Entrepreneurship for sustainable Economic Development” on 07.09.2022 .
- Participated in One Week FDP on “Emerging and Innovative Approach in Management, IT and Communication in Teaching and Research” during 09.06.2022 to 15.06.2022 at IIMT College of Management in association with Indian Economic Association.
- Participated in One Week FDP on “Amazon Web Services” during 22.08.2022 to 27.08.2022 at RV Institute of Technology and Management, Bangalore.

- Participated in Five Days International Online FDP on “Emerging Trends in Information Technology” during 23.06.2020 - 27.06.2020 organized by Karpagam College of Engineering, Coimbatore.
- Participated in One Week International FDP on "Recent Trends in Computer Science and its Research Perspectives” during 10.06.2020 - 16.06.2020 organized by Marudhar Kesari Jain college for Women, Vaniyambadi.
- Participated in International FDP on "Machine Learning and its Practical Approach" during 11.06.2020 - 13.06.2020 organized by Geetanjali Institute of Technical Studies, Udaipur (Raj).