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E-MAGAZINE

AI, RESEARCH & EDUCATION: THE VISION OF MRS. R. VANITHA

Empowering Learners for a Smarter Tomorrow



Mrs. R. Vanitha
Assistant Professor,
PG Department of Commerce with Computer Applications,
Mannar Thirumalai Naicker College,
Madurai, Tamil Nadu, India.

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MRS.R.VANITHA



PROFESSIONAL PROFILE

Mrs. R. Vanitha is an Assistant Professor(CS) in the PG Department of Commerce with Computer Applications at Mannar Thirumalai Naicker College, Madurai. With over 19 years of undergraduate and 15 years of postgraduate teaching experience, she specializes in Machine Learning, Deep Learning, Relational Database Management Systems, Computer Networks, and Programming Languages.

ACADEMIC JOURNEY

Mrs. Vanitha holds a Ph.D. in Deep Learning Approaches to Detect and Classify Thyroid Cancer (Pursuing), along with her M.Phil. in Managing Object-Oriented Integration and Regression Testing from Madurai Kamaraj University. She completed her Master of Computer Science in 2004 and Bachelor of Computer Science in 2002.She completed her B.Ed in 2011. She is NET qualified in Computer Science (2024). Her research interests focus on AI applications in healthcare, particularly thyroid cancer detection and classification.



TEACHING & PROFESSIONAL EXPERIENCE

Mrs. Vanitha has served as an Assistant Professor at Mannar Thirumalai Naicker College since June 2007 and previously at Govt. Arts and Science College, Nilakottai. She has conducted numerous workshops, seminars, and FDPs on AI, Machine Learning, Data Analytics, and Research Methodologies. She has also served as a resource person for workshops and guest lectures.

TEACHING CONTRIBUTIONS

As part of her academic responsibilities, she has handled various courses in Computer Science and Computer Applications, including Programming Languages, Machine Learning, Deep Learning, Database Management Systems, and Computer Networks. These teaching assignments have enabled her to provide students with practical exposure to emerging technologies and industry-relevant concepts, while encouraging application-oriented learning and the development of technical skills.



RESEARCH & PUBLICATIONS

She has actively contributed to research in the areas of Machine Learning, Deep Learning, Thyroid Disease Prediction, Medical Data Analysis, and Artificial Intelligence. Her research work includes publications on thyroid disease and cancer prediction using machine learning and deep learning techniques. Her research contributions include publications in peer-reviewed journals, with works indexed in Scopus and Web of Science, along with presentations at national and international conferences

PATENTS & INTELLECTUAL PROPERTY

She has contributed to intellectual property and innovative technology initiatives through four patent and design-related contributions. Her contributions include “Classification of Images Based on Extensive Context and Content Feature Set,” “Image Processing Based Device for Identifying Medicinal Plants,” “Blockchain-Based Secure Cloud for Healthcare,” and “AI-Driven Smart Biomedical Monitoring and Electric Vehicle Emergency Response System Using 6G Communication Networks.” These contributions demonstrate her involvement in emerging areas such as artificial intelligence, image processing, healthcare, blockchain, biomedical monitoring, and advanced communication technologies



BOOK CHAPTER PUBLICATIONS

She has contributed to academic and professional knowledge through five book and chapter publications. Her published works include “An Introduction to Robotics,” “Python and R for Data Analytics,” “Internet of Things (IoT),” and the chapter “CNN and the LSTM Algorithm Applied to the Thyroid Dataset for the Detection of Thyroid Cancer.” In addition, she is a co-author of the book “Computer Networks” and “Big Data Analytics for Commerce,” published by Leilani Katie Publication and Press, with ISBN: 978-93-6348-198-5. These publications reflect her academic contributions in areas including robotics, data analytics, IoT, artificial intelligence, deep learning, and Big Data Analytics.







AWARDS & RECOGNITIONS

She has been recognized for her academic excellence and professional contributions through several prestigious awards. She received the "Mahatma Gandhi Memorial Award 2025" for Best Academician from LKP Academy on 15 August 2025. She was also honored with the "International Women's Award – 2026" for Best Professor Excellence Award – 2026 by Wisdom Path Foundation on 8 March 2026, followed by the "International Global Award – 2026" for Best Academician Award – 2026 on 21 March 2026. These recognitions reflect her commitment to teaching, research, and academic excellence.





NPTEL CERTIFICATION

She successfully completed the NPTEL Online Certification Course on "Python for Data Science" during July–August 2025. This certification strengthened her knowledge and skills in Python-based data science and supports her teaching and research activities in emerging areas of computing and data analytics.



WORKSHOPS, FDPS & TRAINING PROGRAMMES

She commitment to continuous professional development is reflected in her active participation in Faculty Development Programmes, conferences, seminars, workshops, and training programmes. Her professional enrichment includes programmes focusing on Artificial Intelligence, Machine Learning, Generative AI, ChatGPT, AI Tools for Teaching and Research, Data Science, Digital Technologies, Cyber Security, Cloud Computing, Programming, Web Technologies, and emerging trends in Computer Science and Information Technology




VELS

DEPARTMENT OF APPLIED COMPUTING AND EMERGING TECHNOLOGIES

FIVE DAYS FACULTY DEVELOPMENT PROGRAM

CLOUD - BASED DATA SCIENCE: ARCHITECTURES, TOOLS, AND BEST PRACTICES

CERTIFICATE OF PARTICIPATION

This is to certify that Vanitha R, Assistant Professor, Department of Commerce CA, Mannar Thirumalai Naicker College, Madurai, Tamil Nadu, India has participated in the Five-Day Faculty Development Program (FDP) on "Cloud - Based Data Science: Architectures, Tools, and Best Practices", conducted by the Department of Applied Computing and Emerging Technologies, from 04 February 2026 to 08 February 2026, at Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai.

Dr.R.Devi Professor & HOD Applied Computing & Emerging Technologies

Dr. Jothi Venkateswaran C Dean School of Computing Science

Dr. M. Chandrasekaran Registrar VISTAS

RESOURCE PERSON & GUEST LECTURES

She has served as a resource person at workshops on AI Tools and Research Skills, and delivered guest lectures on Graphic Design with Canva & Photoshop and AI in Education, organized by the Entrepreneurship Development Cell at Mother Teresa Women's University, Madurai.





She has served as Resource Person in the One Day Workshop on "Empowering Learning and Research through Accessible AI Tools" organized by the Indian Society of Research and Development Professionals (ISRDP) on 10 March 2026.


Indian Society of Research and Development Professionals (ISRDP)

(A unit of SK Research Group of Companies)

One Day Workshop on

"Empowering Learning and Research through Accessible AI Tools"

CERTIFICATE OF APPRECIATION

This is to certify that Ms.R.Vanitha, Assistant Professor,PG Department of Commerce with Computer Applications, Mannar Thirumalai Naicker College, Madurai, Tamil Nadu, India has served as Resource Person in the One Day Workshop on "Empowering Learning and Research through Accessible AI Tools" organized by the Indian Society of Research and Development Professionals (ISRDP) on 10 March 2026.

Mr.S.Bala vetrivel
Project Manager - SKRGC Academy

Dr.M.Sathish Kumar
Founder - SKRGC Academy

SKRGC – ISRDP–RP004

ACADEMIC & INSTITUTIONAL RESPONSIBILITIES

She has actively organizing and coordinating ICM, Faculty Development Programmes (FDPs), workshops, seminars, and other academic programmes. She has also served as a question paper setter, evaluator, and external practical examiner for various colleges, supporting effective academic assessment and quality enhancement.




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PG DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS
&
DEPARTMENT OF COMMERCE WITH INFORMATION TECHNOLOGY
A FIVE-DAY NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAMME

CERTIFICATE

This is to certify that Ms.R.Vanitha, Assistant Professor, Mannar Thirumalai Naicker College has served as Organising Secretary in the Five-Day National Level Online Faculty Development Programme on "Computing Techniques for Industry 5.0" jointly organized by the PG Department of Commerce with Computer Applications and Department of Commerce with Information Technology, Mannar Thirumalai Naicker College from 23.02.2026 to 27.02.2026.

Ms.A. NAGASWATHY HOD
Mr.C.PRABHU DIRECTOR
Dr.A.RAMASUBBIAH PRINCIPAL



ADDITIONAL & INSTITUTIONAL CONTRIBUTIONS

She has actively participated in various institutional committees and extension activities. Her contributions include serving as CCA Coordinator, Member of the Criterion VII and Alumni Committees. She has also coordinated the School Adoption Programme and Old Age Home Visits as extension activities.







VISION & MISSION

Mrs. Vanitha is committed to fostering research and teaching excellence by integrating AI and Data Science into higher education. Her mission is to empower students with innovative skills that address real-world challenges, particularly in healthcare and technology.







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