PROFILE

Mrs.R.Vanitha

Assistant Professor

📞**+91 9842138129**

✉ **vanithar@mannarcollege.ac.in**

I. Academic Qualifications:

Doctor of Philosophy
- University   : Madurai Kamaraj University, Madurai
- Title   : Machine Learning Approaches to Detect and Classify Thyroid Cancer
- Year   : 2022(Pursuing)

Master of Philosophy
- University   : Madurai Kamaraj University, Madurai
- Title   : Managing Object Oriented Integration and Regression Testing.
- Year   : 2007

Post-Graduation
- College   : Madurai Kamaraj University, Madurai
- Degree   : Master of Computer Science
- Year   : 2004

Under Graduation
- College   : Govt. Arts and Science College, Nilakottai, Dindigul (D.T)
- Degree   : Bachelor of Computer Science
- Year   : 2000

II. Professional Experience:

- Worked as an Assistant Professor at Govt. Arts and Science College, Nilakottai, Dindigul (D.T) from 20/06/2006 to 15/04/2007.
- Working as an Assistant Professor in Mannar Thirumalai Naicker College, Madurai from 18/06/2007 to till date.,

III. Area of Specialization:
- Machine Learning
- Relational Database Management System
- Computer Networks

IV. Paper Presented in Conference/Seminar:

- An International-level seminar on **Trends in Multimedia focusing on Augmented Reality** was held at Sourashtra College on August 30, 2017.

- An International-level seminar on **Global Talent Management in the Digital Era, including a survey on Augmented Reality**, was conducted at Fatima College on September 13, 2017

- An International-level seminar on **Virtual Reality Techniques, focusing on Multimedia Mining Techniques**, was organized at Fatima College on August 3, 2018.

- An International-level seminar on **Emerging Trends in Science, Technology, and Mathematics (ICETSTM's) featuring a discussion on Bitcoin as a Decentralized Global Currency** was held at Parvathy's Arts & Science College, Dindigul, on August 22, 2019.

- An International virtual conference on **"In World Technologies: Venture into Next Gen,"** including a presentation on An Efficient Thyroid Cancer Prediction and Comparative Study Using Machine Learning Algorithm with Classifier for Medical Data Analysis, was conducted at Fatima College from May 25-26, 2022.

- A National conference on **Sustainable Computing and Development (NCSCD) – 2023, featuring an evaluation of algorithms with features in Machine Learning for Thyroid Disease Detection**, was held at PSG College of Arts & PSG Centre for Academic Research and Excellence on February 2, 2023.

- An International conference on **Integrated Technologies in Computer Applications, including a survey of analysis in Thyroid Prediction and Providing Medicine using Machine Learning Techniques**, was conducted at Nadar Saraswathi College of Arts and Science, Theni, from January 27-28, 2023.

V. Publications:

- Presented a paper on titled "Multimedia Mining Techniques which are used" published in SHANLAX peer-reviewed journal on August 3, 2018, with ISSN 2321-788X, Volume 1, Issue 3, and an impact factor of 3.025.

- Presented a paper with T. Thivya Sindhu co-authored a paper titled "Bitcoin – A Decentralized Global Currency" published in IJRAR peer-reviewed journal on August 22, 2019, with ISSN 2349-5138, Volume 1, and an impact factor of 5.75.

- Presented a paper on "Intelligent Prediction of Thyroid Disease using Attributes of Machine Learning" published in IJIRSET peer-reviewed journal on September 15, 2021, with e-ISSN 2319-8753, Volume 10, Issue 2, and an impact factor of 7.569.

- Presented a paper titled "Thyroid Cancer Detection using Machine Learning Techniques" published in IJCRT peer-reviewed journal on January 22, 2022, with ISSN 2320-2882, Volume 10, Issue 1, and an impact factor of 7.97.

- Presented a paper onpaper titled "A Novel Classification Methodology for Thyroid Cancer using C4.5 with Firefly Optimization Algorithm (CFOA)" published in Indian Journal of Science and Technology on July 14, 2022, with Print ISSN 0974-6846 and Electronic ISSN 0974-5645, Volume 15(26), Pages 1324-1335, indexed in Web of Science.

- Presented a paper ontitled "Hybrid Model of KNN and PCA to Pre-processor of Thyroid Dataset using Machine Learning" published in Journal of Pharmaceutical Negative Results on December 18, 2022, with ISSN 13 & 3, indexed in Scopus.

- Presented a paper ona paper titled "A Comparative Study of Deep Hybrid Classifier for Thyroid Cancer Prediction" published in Humanities and Social Science Studies Journal in July-December 2023, Volume 12, Issue 02, No. 9, with ISSN 2319-829X and an impact factor of 7.28, indexed in UGC Care.

VI. Faculty Development Programme / Short Term Course Attended:

- A Faculty Development Programme on Free and Open Source was conducted at Thiagarajar College of Engineering, Madurai, on August 29, 2015.

- A Faculty Development Programme on Moodle Learning Management System (FDP) was held at IIT Mumbai from June 6, 2020, to June 10, 2020.

- A Four-Day Faculty Development Programme on Recent Technology in Computing Technologies and Tools was organized by Panimalar Institute of Technology, Chennai, on July 3-4, 2020, and July 6-7, 2020.

- An online course on PHP and MySQL was offered by IIT Mumbai on March 4, 2021.

- A Faculty Development Programme on Recent Research Directions Applying Deep Learning for Health Informatics (FDP) took place at ArulmiguKalasalingam College of Arts and Science on May 19, 2021.

- An orientation on "Successful Startup Founder" was conducted at Sethu Institute of Technology on March 11, 2021, for one day.

- A Two-Day Faculty Development Program on Open-Source Tools for Cybersecurity was organized at Karpagam College of Engineering, Coimbatore, on December 23, 2021.

- A One-Week Faculty Development Program on Current Trends in Information Technology was held at Nehru Arts and Science College, Thirumalayampalayam, Coimbatore, from February 2, 2022, to February 9, 2022.

- A Two-Day Online Faculty Development Program on Secrets, Finding, Writing, and Winning a Research Grant was organized by R&D Cell, Pollachi College of Arts and Science, Pollachi, Coimbatore, from March 1, 2022, to March 2, 2022.
- A National course on Machine Learning using Python was conducted by Marcello Tech from October 17, 2022, to October 29, 2022.

- A National course on a 30-day Deep Learning Master Class was held by Pantech e-Learning Pvt. Ltd., Chennai, from November 11, 2022, to December 11, 2022

VII. Research Articles Published in Proceedings:

- A survey titled "A Survey on Augmented Multimedia Mining Techniques Which are used" was presented at the International conference on Virtual Reality Techniques on August 3, 2018, with ISSN 2321-788X.

- An efficient study on "Thyroid Cancer Prediction and Comparative Study Using Machine Learning Algorithm with Classifier for Medical Data Analysis" was discussed at the International Conference on In-World Technologies on May 25, 2022.

- An evaluation on "Algorithms With Features in Machine Learning For Thyroid Disease Detection" was conducted at the National Conference on Sustainable Computing and Development (NCSCD) – 2023 on February 2, 2023, with ISBN 978-93-95105-07-1.

- A survey analysis on "Thyroid Prediction and Providing Medicine using Machine Learning Techniques" was featured in the Peer Reviewed Journal on International Conference NEXUS'23 on January 27-28, 2023, with ISBN 979-81-959098-1-0.

- A method based on deep learning for "Predicting Thyroid Cancer" was presented at the National Conference on Industry 4.0 Navigating a Changing Landscape on October 6, 2023.

VIII. Seminars/Conferences/Workshops/Webinars Attended (other than MTNC):

- A State-level seminar on Convergence Technologies was held at S. Vellaichamy Nadar College, Madurai, on October 7, 2009.
- A National seminar on Research Issues in Computer Applications took place at Sri Meenakshi Government College for Women on January 8, 2011.
- A State-level seminar on Web Applications was conducted at The Madura College (Autonomous) on February 28, 2011.
- A State-level seminar on Data Networks was organized at The Madura College (Autonomous) on March 14, 2013.
- A State-level seminar on Convergence of Technologies in IT was held at S. Vellaichamy Nadar College on September 26, 2013.
- A State-level UGC-sponsored seminar on Applied Data Mining was conducted at Sri Meenakshi Government Arts College for Women, Madurai, on January 20, 2015.
- An International seminar on Robotics and Big Data was held at S. Vellaichamy Nadar College, Madurai, on July 3, 2015.
- A Faculty Development Programme (FDP) on Free and Open-Source Software was organized at S. Vellaichamy Nadar College, Madurai, on August 29, 2015.
- An International seminar on Robotics and Big Data was conducted at Fatima College on September 3, 2015.
- A National-level conference on Recent Trends in Technologies took place at Mangayarkarasi College of Arts & Science for Women, Madurai, on August 27, 2016.
- A National-level conference on Walk on Soft Computing was organized at Mangayarkarasi College of Arts & Science for Women, Madurai, on January 30, 2016.
- A National-level seminar sponsored by DST–Purse on Cyber Crimes and Security Issues in the Digital World was held at Madurai Kamaraj University on February 26, 2018.

- An International conference on Emerging Trends in Science, Technology, and Mathematics (ICETSTM's) was conducted at Parvathy's Arts and Science College, Dindigul, on August 22, 2018.

- An International-level seminar on Big Data Analytics took place at Madurai Kamaraj University on February 21, 2019.

- An International workshop on Real-Time Cognitive Services Using Azure Cloud was held at Parvathy's Arts and Science College, Dindigul, from June 10-12, 2020.

- A State-level online FDP on NTA UGC NET & SET (Paper 1) Numerical Aptitude Training was conducted at Parvathy's Arts and Science College, Dindigul, from June 1-6, 2020.

- A National FDP on Moodle Learning Management System was organized at IIT from June 6-10, 2020.

- A National four-day FDP on Recent Technology in Computing Technologies and Tools was held at Panimalar Institute of Technology, Chennai, on July 3-4 and 6-7, 2020.

- A State-level seminar on Recent Research Directions in Applying Deep Learning for Health Informatics (FDP) took place at ArulmiguKalasalingam College of Arts and Science on May 19, 2021.

- A State-level webinar on Emotional Intelligence was conducted at KLN College of Engineering on June 8, 2020.

- An International webinar on Entrepreneurship Development was held at Nehru Institute of Technology on June 15, 2021.

- A National webinar on Clearing UGC NET Paper 2 and 3 was organized at Nirmala College for Women, Coimbatore.

- An International seminar on Effective Approaches to the Essentials of Research was held at KGS College of Arts and Science, Coimbatore, from November 17-21, 2020.

- A National training on PHP and MySQL was conducted at IIT Bombay on March 4, 2021.

- A National webinar on Current Trends in Big Data was held at Mangayarkarasi College of Arts and Science for Women on March 4, 2021.

- An International webinar on Recent Advancements in Machine Learning was organized at Arul Anandar College on March 18-19, 2021.

- An International seminar on "Is Down Syndrome a Disability" (CPC) took place at PSR Krishnammal College for Women on March 25, 2021.

- An International webinar on Cloud Computing with Microsoft Azure was conducted at Madurai Sivakasi Nadars Pioneer Meenakshi College for Women on April 12, 2021.

- A State-level seminar on Wearable Industrial Internet of Things (IIoT) vs Industry 4.0 Machine Learning in Computer Vision was held at the Department of Computer Science and Engineering, Nehru Institute of Technology, Coimbatore, on May 22, 2021.

- An International webinar on Building Blocks of Life was organized at Parvathy's Arts and Science on May 28, 2021.

- An International webinar on Entrepreneurship Development was held at Nehru Institute of Technology on June 15, 2021.

- An International two-day workshop on WordPress Website Development was conducted by Digital Marketing Services on December 25-26, 2021.

- An International two-week workshop on Analytical Tools for Image Processing was held at MHRD-RUSH 2.0, University of Madras, from February 1-17, 2022.

- A National one-week FDP on Current Trends in Information Technology was organized at Nehru Arts and Science College, Coimbatore, from February 2-9, 2022.

- A National two-day online FDP on Secrets, Finding, Writing, and Winning a Research Grant was held at Pollachi College of Arts and Science, Pollachi, Coimbatore, from March 1-2, 2022.

- A National four-day online FDP on Revised Manual of SSR was conducted at Immanuel College, Dimapur, Nagaland, from June 8-11, 2022.

- A National webinar on Regression Analysis: Mother of All Models: Online Media Case Study was organized at American College, Madurai, on October 1, 2022.

- A National two-day online FDP on NEP-2020 was held at Yashwantrao Chavan Arts, Commerce and Science College, Ambajogai, from October 17-18, 2022.

- An International webinar on Design Thinking on Innovation & Life Skills was conducted at SNMV College, Coimbatore, on October 28, 2022.

- A National online FDP on Recent Trends in Artificial Intelligence and Cyber Security was held at Shri Vishnu Engineering College for Women, Bhimavaram, from November 1-5, 2022.

- A National FDP on the Application of Machine Learning with Python was organized at Thiagarajar College, Madurai, on November 9, 2022.

- A National workshop on Intellectual Property Rights: Awareness and Patent Process was held at Vaidyanath College, Parli Vaijnath, on December 12, 2022.

- A National five-day FDP on Microsoft Power BI Data Analyst Associate was conducted at Solamalai College of Engineering, Madurai, from November 14-18, 2022.

- A National five-day workshop on Machine Learning and Deep Learning Techniques for VLSI was held at KL University from November 15-19, 2022.

- A National online FDP on Societal Applications of Machine Learning was conducted at Shri Vishnu Engineering College for Women, Bhimavaram, from December 26-30, 2022.

- An International seminar on the Impact of Artificial Intelligence in Technological Development was held at Dembi Dollo University, Ethiopia, on January 27, 2023.

- A State-level seminar on Intellectual Property Rights was organized at The American College on February 3, 2023.

- A National online FDP on Recent Advances in Data Science, Data Analytics, and Cyber Security was held at Shri Vishnu Engineering College for Women, Bhimavaram, from March 1-5, 2023.

- A virtual National online FDP on Recent Advancements in Computing Technology was conducted at Sri S. Ramasamy Naidu Memorial College from February 13-17, 2023.

- A virtual National webinar on Changing Role of HR Heads for Gen Z and Millennials was held at BVICAM, New Delhi, on February 11, 2023.

- An International webinar on Consequences of Cloned Journal Publications was organized at St. Francis De Sales College on February 4, 2023.

- A National-level event, Bridge-23, was held in Madurai by the ICT Academy on September 30, 2023.

- A National Youth Leadership Summit 2023 was held in Coimbatore by the ICT Academy on October 12, 2023.

- A seven-day International-level faculty program on Exploring Technology Advancement-A Voyage into Emerging Horizons was conducted at Sri S. Ramasamy Naidu Memorial College, Sattur, from November 20-27, 2023.

IX. Workshop/Conference/FDP Attended MTNC:

- On May 21, 2008, Mannar Thirumalai Naicker College conducted a State-level Faculty Development Programme.
- On December 30, 2016, Mannar Thirumalai Naicker College organized a State-level Spoken Tutorial Software Program.
- Mannar Thirumalai Naicker College hosted a State-level Android Application Development program in collaboration with Robokart.com on February 28, 2017.
- A National-level Android Application Development program was held at Mannar Thirumalai Naicker College on February 28, 2017.
- Mannar Thirumalai Naicker College organized a State-level Faculty Development Programme (FDP) on March 4, 2017.
- On March 8, 2019, Mannar Thirumalai Naicker College conducted a State-level program titled "One Who Can Do, Teaches! How To Do? And What To Do?"
- A one-day Training and Production workshop on the prospects of a topic was held on March 9, 2019, at Mannar Thirumalai Naicker College.
- Mannar Thirumalai Naicker College organized a State-level One Day Capacity Building Program on Outcome Based on August 28, 2019.
- On October 19, 2019, Mannar Thirumalai Naicker College conducted a State-level Research Writing workshop.
- An International-level seminar on Algorithmic Thinking and Problem Solving took place at Mannar Thirumalai Naicker College on January 23, 2020.
- Mannar Thirumalai Naicker College hosted a State-level program on Entrepreneurship Opportunities in IoT on February 13, 2020.
- On February 29, 2020, Mannar Thirumalai Naicker College conducted a State-level program on e-Content Development.
- A State-level Faculty Development Programme (FDP) on Quality Assurance and Sustenance in Higher Education was held on March 11, 2020, at Mannar Thirumalai Naicker College.
- A National-level webinar on Introduction to Data Science was conducted on June 11, 2020, at Mannar Thirumalai Naicker College.
- Mannar Thirumalai Naicker College organized a State-level webinar on Entrepreneurship Training Webinar on Handmade Face Making on June 18, 2020.

- On June 25, 2020, Mannar Thirumalai Naicker College conducted a State-level webinar titled "Lead by Example: Impress, Inspire and Influence."

- A workshop titled "Preparing for Admission During COVID" was held on May 5, 2021, at Mannar Thirumalai Naicker College.

- Mannar Thirumalai Naicker College hosted a NATIONAL-level program on Biodiversity Life Insurance for Changing World on May 26, 2021.

- On April 6, 2022, Mannar Thirumalai Naicker College conducted a National-level program on Technological Innovation and Artificial Intelligence.

- Mannar Thirumalai Naicker College organized a National-level program on Education 4.0 for Sustainable Economic Development on April 27, 2022.

- From April 18-24, 2022, Mannar Thirumalai Naicker College conducted a State-level program "Enhancing Quality by Unearthing Innovative Practices-Equip 2022."

- Mannar Thirumalai Naicker College organized a State-level workshop on Dynamics of Research Publication on September 15-16, 2022.

- On March 18, 2023, Mannar Thirumalai Naicker College conducted a State-level program on Insights of NEP 2020.

- An International seminar on Recent Trends in Computing Intelligence & Industry 4.0 was hosted by Mannar Thirumalai Naicker College on March 24, 2023.

- Mannar Thirumalai Naicker College conducted a National-level two-day online workshop on Chat GPT & AI Tools to save 2 hours & work Daily from July 27-28, 2023.

X. Details of Books Published:

The entry "An Introduction to Robotics" published by SKGC Publisher with ISBN 978-93-95341-17-2 is dated December 2022.

XI. Details of Patent:

The entry "Classification of images based on extensive context and content feature set" has an identifier of 202341035356 A and was published in December 2022.

XII. E-Quiz Attended:

- On June 21, 2020, V.V. Vannia Perumal College for Women, Virudhunagar, celebrated International Yoga Day.

- Raj University conducted a State-level E-Quiz on Research Methodology on May 2, 2020.
- Devanga Arts College organized a State-level Online Quiz on DBMS on May 24, 2020.
- A State-level E-Quiz on "World Environment Day 2020" was held on June 5, 2020.
- Mannar Thirumalai Naicker College, Madurai, organized a State-level E-Quiz on "NETBITS" focused on Computer Networks on June 7, 2020.

XIII. Positions held in our College:

- Assistant Professor: 2007 - Present
- Member in Calendar Committee: 2015 - Present
- CCA Coordinator: 2017 - 2019
- Member in Alumni Committee: 2016 - Present
- Member in Criterion VII Committee: 2019 - Present