

Name : Mrs.P.Vanitha
Designation : Assistant Professor
Department : Computer Technology
Qualification : MCA, M.Phil, (Ph.D), NET
Experience : Teaching– 20 Years | Research: 15 years
Specialization: Data mining
Email(Official) : vanitha.p@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year
Ph.D.	Computer Science	Hindusthan College of Arts & Science	(Pursuing)
NET	Computer Science	UGC	2024
M.Phil.	Computer Science	Mother Teresa Women's University	2007
MCA	Computer Applications	Sree Amman Arts and Science College	2003
B.Com	Commerce	Dr.N.G.P Arts and Science College	2000

Additional Qualifications

Dip. / Cert.	Area of Specialization	Institution / Agency Name	Year
Diploma	Commercial Practice	State Board of Technical Education	1997
Certificate	Object-Oriented Programming with Java	Coursera	2020
Certificate	Creating your First C++ Application	Coursera	2020
Certificate	Introduction to Big data	Coursera	2020
Certificate	Cloud Computing Basics	Coursera	2020
Certificate	Getting Started with AWS Machine Learning	Coursera	2020
Certificate	Data Exploration using Python	Coursera	2020

Patent

Title	Status	Year
Machine learning based humanoid device for object identification	Published	2023
Predicting the Pandemic's a Comprehensive model using Machine Learning Techniques	Published	2024
Cardiac Prediction with Exploratory Data analysis using R3 Technology Bio-medical Engineering	Published	2024
Road Accident Analysis Using Machine Learning	Published	2025

Research Guidance

Programme	No. of Scholars	
	Awarded	Pursuing
M. Phil.	6	

Research Publications

1. Mrs.P.Vanitha , Dr.P.Jayasree, **Child health through the lens of Big data: A Machine Learning Study on Food Habits**, International Journal of Scientific Research In Multidisciplinary Studies, Vol.10, Issue.12, pp.76-85, ISSN 2454-9312 (Online), 2454-6143 (Print), (Indexed in Google Scholar).
2. Mrs.P.Vanitha, Mr.N.Vinvalan, Mr.K.S.Aagash, **Optimizing Android App Update Size for Efficient Delivery**, Journal Of International Innovative Research In Technology, Vol.11, Issue.7, pp. 2488-2493, December 2024,ISSN: 2349-6002, (Indexed in Google Scholar).
- 3.Mrs.P.Vanitha, Ms.Vijayasree V, **Identifying Cardiac Issues with Data mining Techniques**, International Journal of Innovative Research in Computer and Communication Engineering, Vol.12, Issue.11, pp. 12332-12338, November 2024,ISSN:2320-9801, DOI: 10.15680/IJIRCCE.2024.1211051, (Indexed in Google Scholar).
4. Mrs.P.Vanitha , Ms. Tharani N, Mr.Sasitharan C, **Safeguarding Pan Cards with Cutting-Edge Detection Systems Based on Convolutional Neural Networks**, International Journal of

Multidisciplinary Research in Science, Engineering and Technology, Vol.7, Issue.11, pp. 16828-16834, November 2024,ISSN:2582-7219, DOI: 10.15680 /IJMRSET.2024.0711069, (Indexed in Google Scholar).

5.Mrs.P.Vanitha , Dr.P.Jayasree, **Data Categorization For Food Habit Analytics In Pediatric Health**, International Journal of Scientific Research, Vol.13, Issue.8, pp. 1-6, August 2024, ISSN:2277-8179, DOI: 10.36106/ijsr (Indexed in Google Scholar).

6. Mrs.P.Vanitha, Ms.C.Srinithi, **An Effective Secure Eraser Code Based Storage System Integrity Check Scheme**, International Journal of Advanced Research in Education & Technology, Vol.11, Issue.4, pp. 1365 -1369, August 2024, ISSN:2394-2975 , DOI: 10.15680/IJARETY.2024.1104006, (Indexed in Google Scholar).

7. Mrs.P.Vanitha , Dr.P.Jayasree, **Fast Food's Effects On Children's Eating Habits: An Analytical Essay**, International Journal of Multidisciplinary Research in Science, Engineering and Technology, Vol.7, Issue.7, pp. 13410-13416, July 2024,ISSN :2582-7219, (Indexed in Google Scholar).

8. Mrs.P.Vanitha, Dr.P.Jayasree, **Prediction Of Fuel Efficiency Using Machine Learning**, International Journal of Multidisciplinary Research in Science, Engineering and Technology, Vol.7, Issue.7, pp. 13456-13463, July 2024,ISSN : 2582-7219, (Indexed in Google Scholar).

9. Mrs.P.Vanitha , Ms.S.Swetha, **Cruel URL Blocking In Web Content**, International Journal of Multidisciplinary Research in Science, Engineering and Technology, Vol.13, Issue.7, pp. 13115-13119, July 2024,ISSN:2319-8753, (Indexed in Google Scholar).

10. Mrs.P.Vanitha, Ms.P.Mutharasi, **A Machine Learning Rainfall Prediction System**, International Journal of Multidisciplinary Research in Science, Engineering and Technology, Vol.7, Issue.7, pp. 12109-12115, July 2024, ISSN: 2582-7219, DOI: 10.15680/IJMRSET.2024.0707039, (Indexed in Google Scholar).

11. Mrs.P.Vanitha , Mr.P.Lokesh Ram, **Fuel Efficiency Prediction Using Machine Learning**, International Journal of Innovative Research In Computer and Communication Engineering, Vol.12, Issue.7, pp. 9427-9432, July 2024, ISSN: 2320-9801, DOI: 10.15680/IJIRCCE.2024.1207018, (Indexed in Google Scholar).

12. Mrs.P.Vanitha , Dr.P.Jayasree, **Hiding Techniques for the Packet Using Fusion of Cryptography Primitives To Prevent Selective Jamming attacks**, GIS Science Journal, Vol.10, Issue.2, pp. 483-492, February 2023, ISSN: 1869-9391, (Indexed in UGC).

13. Mrs.P.Vanitha , Dr.P.Jayasree, **Clustering Based DCD Algorithm For Replacement of Nodes In WSN**, Dogo Rangsang Research Journal, Vol.13, Issue.2, pp. 100-109,ISSN :2347-7180, (Indexed in UGC).
14. Mrs.P.Vanitha , Dr.P.Jayasree, **A Complete Storm Analysis Framework Using Feature Reduction Mechanism For Rainfall Dataset**, Aegaeum Journal, Vol.11, Issue.01, pp. 16-24, January 2023, ISSN: 0776-3808 ,(Indexed in UGC).
15. Mrs.P.Vanitha , Dr.P.Jayasree, **Performance Analysis of Secure Routing and Load Balancing in MANET**, Aegaeum Journal, Vol.11, Issue.01, pp. 1-15, January 2023, ISSN: 0776-3808, (Indexed in UGC).
16. Mrs.P.Vanitha , Dr.M.Mayilvaganan, **Survey on Meteorological Weather Analysis Based on Naïve Bayes Classification Algorithm**, International Journal of Engineering and Computer Science, Vol.5, Issue.1, pp. 15419-15422, January 2016, ISSN: 2319-7242, (Indexed in Google Scholar).
17. Mrs.P.Vanitha , Dr.M.Mayilvaganan, **Efficient Analysis of Meteorological Data Based On Humidity Level And Cyclone Level Using Naïve Bayes Classification Algorithm**, International Journal of Recent Advances In Multidisciplinary Research, Vol.02, Issue.08, pp. 0637-0642, August 2015, ISSN:2350-0743, (Indexed in Google Scholar).
18. Mrs.P.Vanitha , Dr.M.Mayilvaganan, **Correlation Analysis of Meteorological Data In Region of Tamil Nadu Districts Based On K- Means Clustering Algorithm**, International Journal of Computer Science Trends and Technology, Vol.3, Issue.3, pp. 184-190, May 2015,ISSN : 2347-8578 ,(Indexed in Google Scholar).
19. Mrs.P.Vanitha , Dr.M.Mayilvaganan , **A Survey On Meteorological Data Analysis Using Data Mining Techniques**, International Journal of Computer Sciences and Engineering, Vol.3, Issue.5, pp264-267, May 2015,E-ISSN: 2347-2693 (Indexed in Google Scholar).

Books

- 1.**Machine Learning Basics with Python**, Dr.P.Senthil Vadivu, Dr P Lalitha, Dr.P.Jayasree, Mrs.P.Vanitha, Ms.C.Midhunamurali, First Edition, Hansoft Technologies Pvt Ltd, 2023, ISBN:978-81-955315-2-3.
- 2.**Decoding Cyber Threat Intelligence: Trends and Techniques**, Mrs.P.Vanitha Dr.P.Jayasree,

First Edition,Hindusthan College of Arts and Science , 2024, ISBN: 978-0997025-49-1

3.An Open Source Essentials and Tools for Modern Development, Mrs.P.Vanitha, Mrs G.S Geethamani, Dr.P.Jayasree, First Edition, Hindusthan College of Arts and Science , 2024, ISBN: 978-93-48086-26-6.

4. Virtual Reality : Beginners Handbook to Future, ,Mrs G S Geethamani , Mrs.P.Vanitha, Dr.P.Jayasree, First Edition,Hindusthan College of Arts and Science , 2024, ISBN: 978-93-48086-60-0.

5. IoT for Everyone: Understanding the Technology Around You, Mrs.P.Vanitha, First Edition, Scientific Research Publication , 2024, ISBN: 978-93-341-7298-0.

6. From Pixels to Perfection :Unlocking the potentials of Image Processing in Digital Media, Mrs.S.Banumathi, Mrs.M.Nalini, Mrs.P.Vanitha, Mrs.S.Riyaz Fathima, Mrs.T.Leena Prema Kumari, First Edition,Scientific Research Publication , 2025, ISBN:978-1-23-456789-7.

Book Chapters Publication

1.Securing connections: Exploring network Security Approaches and Advantages, Mrs.P.Vanitha, First Edition, Innovation Online Training Academy, 2025, ISBN: 978-93-48-990-24-2.

2.AI Powered Farming: Redefining Efficiency and Sustainability, Mrs.P.Vanitha Mrs.I.Razul Beevi, First Edition, Ciit Publications,2025, ISBN: 978-93-6126-962-2.

3.Exploring Advanced Visualization Tools for Research Applications, Mrs.P.Vanitha Ms.N.Rashiga, First Edition, Ciit Publications, 2025,ISBN : 978-93-6126-242-5.

4.Guardians of the Cloud: A Modern Approach to Security, Mrs.P.Vanitha, Dr.P.Jayasree, First Edition, Hindusthan College of Arts and Science, ISBN:978-93-48086-46-4.

5.Recent Advances in Internet of Things, Mrs.P.Vanitha, Dr.P.Jayasree, First Edition, Innovation Online Training Academy, 2024, ISBN: 978-93-93622-43-3.

6.Computerized Reasoning in Medical Services and its Applications in AI, Dr.P.Jayasree, Mrs.P.Vanitha, First Edition,AN Publications,2023, ISBN: 978-81-963342-6-0.

7.Applications of Artificial Intelligence in Science and Technology, Mrs.P.Vanitha, Dr.P.Jayasree, First Edition, Innovation Online Training Academy, 2023, ISBN: 978-93-93622-29-0.

Presentations in Conference/ Seminar

1. Leveraging Steganography with Cryptography for Advanced Data Security, International Conference on Intelligent Computing and Technology (ICICT '24), Sri Ramakrishna College of Arts and Science,13-Mar-24.

2. An Investigation-Based Prediction Approach for Air Quality Using Prediction Data, International Conference on Sustainable Computing Trends ICSCCT 2024, Hindusthan College of Arts & Science, 1-Mar-24.

3. Exploring the Dynamics of Drug Use, Exploring the Dynamics of Drug Use, Hindusthan College of Arts & Science,21-Dec-23.

4. Animal Detection and Forest Side Field Monitoring Using A Website, National conference On Emerging Trends in Computing &Communication NCETC2, Hindusthan College of Arts & Science,21-Dec-23.

5. Drip Tracking and Supervision System, National conference On“Emerging Trends in Computing & Communication” Ncetc2 , Hindusthan College of Arts & Science,21-Dec-23.

6. A Complete Storm Analysis Framework Using Feature Reduction Mechanism for Rainfall Dataset, 2nd International Conference on Computing and Intelligent System (ICCIS'23), Shri Krishna Adithya College of Arts & Science, 24-Jan-23 and 25-Jan-23.

7. Methodology For Predicting Lung Cancer Using Data Mining Techniques, Proceedings of International conference on Artificial intelligence in modern business era, Dr. N.G.P. Arts and Science College (Autonomous), 17-Feb-23.

8. Clustering Based DCD Algorithm for Replacement Of Nodes In WSN, Proceedings of International conference on Artificial intelligence in modern business era, Dr. N.G.P. Arts and Science College (Autonomous), 17-Feb-23.

9. Storm Centered Prediction Framework Using Support Vector Mechanism for Rainfall Dataset, Proceedings of the International Conference on Intelligent Computing and Technology ICICT -2023, Sri Ramakrishna College of Arts & Science, 10-Mar-23.

10. Detecting Heart Problems Using Data Mining Methods, Proceedings of International Conference on Recent Trends in Advanced Computing-23, St.Joseph's University, 02-May-23 and 03-May- 23.

11. Heart Disease Prediction Using Machine Learning Algorithms, Bishop Cotton Academy of Professional Management, Bishop Cotton Academy of Professional Management, 26-May-23.

Participation in Conference/SEMINAR

National Conference on Emerging Dimensions in Management, Karpagam University, Coimbatore, 01-Feb-23 .

Participation in Faculty Development Programme

1. **Holistic Ethics in Artificial Intelligence Era of Education**, Microsoft, 03-Feb-2024
2. **Idea Generation Methods**, ICT Academy, 05-Jun-2024 to 07-Jun-2024
3. **Implications of Emerging Computing Technologies**, Hindusthan College of Arts & Science, Coimbatore, 29-Jul-2024 to 04-Aug-2024
4. **Practicing Analytics with Data Science**, CMR University, Bengaluru, 08-Jul-2024 to 12-Jul-2024.
5. **Essential Skills For Professional Development In Higher Education**, Star International Foundation for Research and Education, 01-Jul-2024 to 07-Jul-2024.
6. **Data Visualization**, Hindusthan College of Arts & Science, Coimbatore, 13-Mar-2023 to 20-Mar-2023.
7. **Network Security**, UTL Technologies, Coimbatore, 20-Apr-2020 to 26-Apr-2020.
8. **Python Programming**, Hindusthan College of Arts & Science, Coimbatore, 10-Aug-2019.
9. **Mentoring the Mentors**, Karunya Institute Of Technology And Sciences, Coimbatore, 20-Jun-2018.

10. **Discover The Teacher In You**, Hindusthan College of Arts & Science, Coimbatore, 25-Jan-2014.
11. **Communication Skills**, Hindusthan College of Arts & Science, Coimbatore, 14-Dec-2014.
12. **Appreciation Inquiry : A Positive Approach**, Hindusthan College of Arts & Science, Coimbatore, 25-Aug-2012.
13. **Classroom Psychology**, Hindusthan College of Arts & Science , Coimbatore, 22-Sep-2012.

Participation in Workshop

1. IOT through Arudino and Raspberry PI, Hindusthan College of Arts & Science,05-Aug-2019.
2. ODOO Framework, Hindusthan College of Arts & Science,08-Jul-2019.

Conference / Seminar / Workshop Organized

Organizing Secretary, National level Seminar, Hindusthan College of Arts & Science,, Coimbatore, 29-Sep-23.

Invited Speaker / Session Chair/ Reviewer

Invited Speaker, Challenges faced by youth in Corruption, Hindusthan College of Education, Coimbatore, 21-Sep-21.

Editorial / Reviewer Board Member

Editorial Board Member, International Journal of Innovative Research in Computer and Communication Engineering, since 2024.

Member in BoS

Board of Computer Science, Sree Saraswathi Thyagaraja College, Pollachi, since 2025.

Awards / Honors

Awards / Honors	Agency / Institute	Year
Best Senior Faculty	Brainery Spot Technology, Coimbatore	2024

