

Name : Dr. S. Gomathi alias Rohini
Designation : Associate Professor
Department : Computer Science with Data Analytics
Qualification : M.Sc., M.Phil., Ph.D.
Experience : Teaching: 17 years Industry : 3 years Research : -
Area of Specialization(s): Image Processing
Email (Official ID) : gomathi.s@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Mother Teresa Women's University, Kodaikanal	2014
M. Phil.	Computer Science	Manonmanium Sundaranar University, Tirunelveli	2003
M. Sc.	Computer Science	St. Xavier's College, Tirunelveli	2000
B. Sc.	Computer Science	Sri Sarada College for Women, Tirunelveli	1998

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Certification	IBM Mainframes	Texas Technologies, Chennai	2004
Certification	Software Testing	NPTEL	2016
Certification	Introduction to R Software	NPTEL	2017
Certification	Computer Networks	NPTEL	2019
Certification	Cloud Computing	NPTEL	2020
Certification	AI for Every One	Coursera	2020
Certification	Introduction to Machine Learning	Coursera	2020
Certification	Data Analytics using R	Skyfi Labs	2020
Certification	Cloud Computing Basics	Coursera	2020
Certification	ITF+	CompTia Certmaster Learn	2020
Certification	Intro. and Programming with IoT Boards	Coursera	2020
Certification	Image Classification with CNNs using Keras	Coursera	2020
Certification	Image Data Augmentation with Keras	Coursera	2020
Certification	Intro to Cyber Security Tools&Cyber Attacks	Coursera	2020
Certification	R Programming	Coursera	2020

Certification	Introduction To AI	Coursera	2020
Certification	HTML	Spoken Tutorial Project, IIT Bombay	2021
Certification	Foundations: Data, Data, Everywhere	Coursera	2021

Grants Received

Event Title	Agency	Amount	Date
Lecture Workshop on Big Data Analytics	Science Academies	Rs.89000	22,23-Oct-17
Lecture Workshop on Recent Advancements & Challenges in Computer Security	Science Academies	Rs.119250	04,05-Jan-18
Virtual Lecture Workshop on Data Science Applications in Research	Science Academies	Rs.30000	29,30-Jul-21

Projects Completed

Project Title	Agency	Amount	Duration
Big Data Analytics of Women Master Health Check-Up Patients' Test Reports	SNR Sons Charitable Trust	Rs.25000	1 year

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	-
M. Phil.	1	-

Research Publications (Indexed)

International

1. Trimming Approach for Word Segmentation with focus on Overlapping Characters, IEEE Xplore Digital Library, pp.1-4, 2013.
2. A Survey on Cross Domain Opinion Mining, International Journal of Computer Science and Engineering, Vol.6, No.10, pp.792-796,2018, UGC Listed.
3. Sentiment Analysis of Google Reviews of a College, IOSR Journal of Engineering, ICCIDS Special Issue, Vol.5, pp.1-7, 2018, UGC Listed.
4. Cross Domain Opinion Mining Using Maximum Entropy Based Classifier, Journal of Physics: Conference Series, ISSN:1742-6596, Vol.1362, No. 012065, pp. 1-7, 2019, Scopus Indexed.
5. Software Defect Prediction Techniques in Codes and Providing Maximum Accuracy to the Code Using Machine Learning Algorithm, Our Heritage Journal, ISSN-0474-9030, Vol.68, No.30, pp. 13328-13336, 2020, UGC CARE Listed.

6. Disruptive Technology for Innovation and Choice, Wutan Huatan Jisuan Jishu International Journal, ISSN 1001-1749, Vol. 16, No. 7, pp.44-49, 2020, UGC CARE-II, h index -7, Scopus Indexed.
7. A Primary Predictive Study on Prevalence of Kidney Diseases in Women Using Machine Learning Techniques, Wutan Huatan Jisuan Jishu International Journal, ISSN 1001-1749, Vol. 16, No. 8, pp.143-148, 2020, UGC CARE-II, h index -7, Scopus Indexed.
8. Examination on Early Detection of Autism Syndrome in Child Development Disorder, European Journal of Molecular & Clinical Medicine, 7(11):1593-1598, 2021, Scopus Indexed.
9. Ensemble Classifier Using Fuzzy C5.0 Decision Tree for Information Retrieval, Design Engineering, Vol 2021, No. 08, pp. 4037-4044, 2021, Scopus Indexed.
10. An Experiment on Logistic Regression Analysis to Detect Autism Spectrum Disorder, IEEE Explore, pp. 1-4, 2022.

Other Publications – International/National Journals

International

1. Projection Based Approach for Segmenting Lines and Words from Newspaper Text, International Journal of Advanced Computing, Recent Science Publications (ISSN 2044-2433, Impact Factor 1.65), Vol.33, No. 2, pp. 295-299, July 2012.
2. Segmentation of Touching, Overlapping, Skewed and Short Handwritten Text Lines, International Journal of Computer Applications (ISSN 0975-8887, Impact Factor 0.814), Vol. 49, No.19, pp. 24-29, July 2012.
3. Statistical Approach for Segmenting Unconstrained Handwritten Text Lines, International Journal of Computer Applications, (Impact Factor 0.814), AICWIC (1), pp. 20-24, 2013.
4. Performance of Statistics Based Line Segmentation System for Unconstrained Handwritten Text, International Journal of Innovative Research in Advanced Engineering, Vol. 4, No. 1, pp. 13-18, 2017.
5. Embedding User Preferences with Spatial Keyword Query Processing, Journal of Applied Science & Computation, Vol.6, No.4, 2019.
6. Examination of Location based Services and User Preferences, International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Vol. 9 No. 2S3, 2019.

National

1. Certain Approaches for a Complete Mathematical Text-to-Speech System, Indian Journal of Computer Science and Engineering (e ISSN 0976-5116, p ISSN 2231-3850), Vol. 2, No. 4, pp. 599-606, Sep 2011.

Book Publications

1. Character Segmentation for Cursive Handwritten Text using Ligature Classification and Transition Feature, Springer LNEE, Vol. 1, pp. 269-280, 2012.

2. Evolving Business Models of Online Food Delivery Industry in Indian Context, Paradigm Drift in Business Theory and Practices, Vol.1, No.1, pp.63-67, ISBN: 978-81-931500-2-3, 2018.
3. Prevention from Cyber Security Vulnerabilities in Covid-19 Pandemic Situation, Research Trends in Multidisciplinary Subjects, Archers and Elevators Publishing House, Vol 1, pp.225-229, ISBN:978-93-90996-66-7,2021.
4. Autism Detection Using Machine Learning Approach: A Review, Machine Intelligence and Smart Systems. Algorithms for Intelligent Systems, Springer, 2022.

Participation in Conference

1. Signal and Image Processing, Dr. N.G.P. Institute of Technology, Coimbatore, 13-Dec-12 to 15-Dec-12.
2. Computer Communications and Informatics, Sri Sakthi Institute of Engineering & Technology, Coimbatore , 04-Jan-13 to 06- Jan-13.
3. Women in Computing, Amirta Institute of Technology, Coimbatore, 09-Jan-13 to 11-Jan-13.
4. Intelligent Computing and Technology, Sri Ramakrishna College of Arts & Science, Coimbatore, 08-Dec-17.
5. Research Trends in Computing Technology, Dr. N.G.P. Arts & Science College, Coimbatore, 09-Aug-18 to 10-Aug-18.
6. Computational Intelligence and Data Science, Sankara College of Science and Commerce, Coimbatore, 10-Oct-18.
7. Recent Trends in Engineering Technology and Management, Coimbatore Institute of Engineering & Technology, Coimbatore, 29-mar-19 to 30-Mar-19.
8. Indian Rural Public Health & Non Communicable Diseases, Kovai Medical Center and Hospital, Coimbatore, 6-Apr-19.
9. Review of Disruptive Technologies in Business Models – Ideas and Narratives, AJK Institute of Management Coimbatore, 31-Jul-20.
10. Current Trends in Advanced Computing, Kristu Jayanti College Bengaluru, 03-Jun-21 to 04-Jun-21.
11. Information Science, Management Research and Social Sciences, AJK College of Arts and Science Coimbatore, 18-Apr-22 to 19-Apr-22.

Participation in Seminars

1. Quality Enhancement Through NAAC Accreditation, Sri Ramakrishna College of Arts & Science, Coimbatore, 11-Dec-18 to 12-Dec-18.
2. Fostering Teaching Learning Practices for Design Thinking Curriculum in Higher Education, SNS College of Engineering, Coimbatore, 10-Jan-19 to 11-Jan-19.

3. Small Business Initiatives & Insurance Principles: Strategic Issues, Sri Ramakrishna College of Arts & Science, Coimbatore, 09-02-17.

Participation in Workshop

1. CAD/CAM , KGiSL Institute of Information Management, Coimbatore,22- Aug-07.
2. Research Review, Mother Teresa Women's University, Chennai, 03-Jan-09 & 31-Jan-09.
3. Windows Azure, Sri Ramakrishna Engineering College, Coimbatore, 23-Sep-09 & 12- Nov-09.
4. Embedded Linux, Sri Ramakrishna Engineering College, Coimbatore,13- Mar-10.
5. Quality Enhancement in HEIs by Effectiveness of Academic and Administrative Audit - Issues and Challenges, Sri Ramakrishna College of Arts & Science, Coimbatore, 21-Oct-16 & 22-Oct-16.
6. Basic Programming using Python, IIT Bombay, 15 days, Apr-20.

Participation in Orientation Programme / Short Term Courses

1. Python – Beginners Tutorials, Alagappa University, Karaikudi, 11-May-20 to 17-May-20.
2. Machine Learning and Artificial Intelligence for Real time Applications, Bharathiar University, Coimbatore, 09-Jul-20 to 11-Jul-20.
3. Implementation of Outcome Based Education to Enhance the Quality of HEIs, Sri Ramakrishna College of Arts and Science, Coimbatore, 15-Jul-20 to 21-Jul-20.
4. Cyber Security with Block Chain Technology, KKR&KSR Institute of Technology and Sciences, Guntur, 22-Apr-21 to 28-Apr-21

Participation in Faculty Development Programme

1. Software Testing, KGiSL Instt. of Information Management, Coimbatore, 01-Feb-07 to 03-Feb-07.
2. Software Testing, KGiSL Institute of Information Management, Coimbatore, 18-Aug-07.
3. Discrete Mathematics, Sri Ramakrishna Engineering College, Coimbatore, 22-Jun-09 to 26-Jun-09.
4. Computer Vision and Deep Learning: A Research Perspective, PSG College of Technology, Coimbatore, 26-Aug-19 to 01-Sep-19.
5. Quality Initiatives in Higher Education (AICTE), Consortium Colleges, 13-Apr-20 to 20-Apr-20.
6. R Programming, IIT-Bombay Spoken Tutorial, 07-May-20 to 11-May-20.
7. Role of Online Teaching Pedagogy and ICT Tools in Outcome Based Education, KSR Institute of Technology, 25-Jun-20.
8. Python for Data Science, Madanapalle Instt. of Technology and Science, AP, 24-Jun-20 to 28-Jun-20.
9. Importance of Mathematics in Sci. and Tech., GMR Institute of Technology, Kakinada, 25-Jun-20 to 29-Jun-20.
10. Institutional Benchmarking of Best Practices, Dnyan Prabodhini Mandal's Shree Mallik Arjun & Shri. Chetan Manju Desai College, Canacona, 08-Jun-20 to 14-Jun-20.
11. Recent Trends in Digital Technologies, The American College, Madurai, 07-Jul-20 to 11-Jul-20.

12. Recent Research, Developments in Mathematics, Statistics and their Applications, GMR Institute of Technology, Rajam, Andhra Pradesh, 20-May-21 to 26-May-21.
13. Augment Reality & Virtual Reality, AISSMS College of Engineering, 21-Jun-21 to 25-Jun-21.
14. Fundamentals of AI, ICT Academy, 19-Jul-21 to 23-Jul-21.
15. Quantum Information System and Machine Learning, Ramiah Institute of Technology, Bengaluru, 23-Aug-21 to 27-Aug-21.
16. Digital VLSI Design and Verification, Bangalore Instt. of Technology, 23-Aug-21 to 27-Aug-21.
17. Cyber Security in Digital Era, BGSB University, Rajouri, 23-Aug-21 to 27-Aug-21.
18. Societal Applications of AI, Block Chain, and IoT, Shri Vishnu Engineering College for Women, Bhimavaram, 01-Sep-21 to 05-Sep-21.

Conference / Seminar / Workshop Organized

1. Coordinator, IASc, NASI and INSA sponsored Science Academies Lecture Workshop on Big Data Analytics, Sri Ramakrishna College of Arts & Science, Coimbatore, 22-Feb-17 to 23-Feb-17.
2. Coordinator, IASc, NASI and INSA sponsored Science Academies Lecture Workshop on Recent Advancements & Challenges in Computer Security, Sri Ramakrishna College of Arts & Science, Coimbatore, 04-Jan-18 to 05-Jan-18.
3. Coordinator, IASc, NASI and INSA sponsored Science Academies' Virtual Lecture Workshop on Data Science Applications in Research, Sri Ramakrishna College of Arts & Science, Coimbatore, 29-Jul-21 to 30-Jul-21.

Editorial / Review Board Member

1. Editorial Board Member, American Journal of Computer Science and Technology, Science Publishing Group, since 2021.
2. Reviewer, International Journal of Latest Technology in Engineering, Management & Applied Science, since 2022.
3. Reviewer, International Journal of Research and Innovation in Social Science, since 2022.

Membership in Professional Bodies

Name of the Professional Body	Nature of Membership	Duration
International Association of Professional Academicians	Life	-
International Economic Development and Research Council	Life	-
International Society for Development and Sustainability	Life	
Oracle Academy	Faculty	Nov-21 to Aug-23