

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution

Tiruchirappalli - 620 002

Name : Dr.M.Gomathy

Designation : Assistant Professor

Department : Computer Science

Qualification : M.Sc.I.T., M.Phil., M.C.A., Ph.D.,

Experience: Teaching: 12 Research: 3

Area of Specialization(s) : Artificial Intelligence, Big Data, Neural Networks

Email (Official ID) : gomathim@sigc.edu

Aadhar Number : 3749 3027 1509

Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of
			Graduation
Ph.D	Computer Science	Shrimati Indira Gandhi College,	September 2014
		Trichirappalli-02, Bharathidasan University	
M.C.A	Computer Application	Periyar University, Salem	2009
M.Phil	Computer Science	St.Joseph's College(Autononous),	2004
		Trichirappalli-02, Bharathidasan University	
M.Sc	Information Technology	Shrimati Indira Gandhi College,	2003
		Trichirappalli-02, Bharathidasan University	

Additional Qualifications Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Certification	Fundamentals of Computer system	IGNOU	25-03-2021
Certification	Introduction to Information Technology	IGNOU	25-03-2021
Certification	Cloud computing	NPTEL	Feb-April
Certification	Computer Networks and Internet protocol	NPTEL	Jan-April 2024

Research Guidance

Programme	No.ofScholars	
	Completed	Pursuing
Ph.D(Computer Science)		2

Research Publications (Indexed)

- 1. Study on security frameworks and data protection techniques for public cloud environment ARPN Journal of Engineering and Applied Sciences, Vol.11, No.9, May 2016.
- 2. An analysis of secure and efficient data transmission for cluster based wireless sensor networks

 JMSR Journal of Multidisciplinary Scientific Research ISSN:2307-6976, pg.10-11, 2014.
- 3. Real Time Query scheduling for wireless sensor networks", JMSR Journal of Multidisciplinary Scientific Research ISSN: 2307-6976, Vol.2, No.2, p. 1-3, 2014.
- Fuzzy Logic and Neural networks based gender classification using three features Inder science Publishers International Journal of signal and imaging systems Engineering ISSN: 0952-8091, Vol.7, Issue 2 pg. 75-82, 2014.
- 5. CRAM: Efficient Dynamic Resource Scheduling in cloud computing IJERD –International Journal of Engineering Research and Department ISBN: 2278-067X, Vol.10, No.3, pg. 59 62, 2014.

- Sub Saharan journal of computer science ISSN: 2307-9169, pg. 06-09, 2013.
- 7. Identification of speech disorders using Artificial Neural Networks Sub Saharan journal Of computer science ISSN: 2307-9169, Peer reviewed, pg. 01-05, 2013.
- Gender classification in speech recognition using fuzzy logic and neural network –
 International Arab Journal of Information Technology ISSN: 2309 4524, Vol.10,
 No.5, 2013.
- Gender clusters and classification algorithms in speech processing: a comprehensive Performance Analysis – International journal of Computer Applications – Vol.51, No.20, pg. 9-17, 2012.
- Performance analysis of gender clustering and classification algorithms International journal of Computer Science and Engineering – ISSN: 0975-3397, Vol. 4, No.3, pg. 442-457, 2012.
- 11.Gender grouping in speech recognition using statistical metrics of pitch strength International European journal of Scientific Research ISSN:1450-216X, Vol.61, 524-537, 2011.
- 12. Classification of speech signal based on gender a hybrid approach using Neuro Fuzzy systems International Journal of speech technology, Peer reviewed, www.springer.com/journal/10772, ISSN:10712-011-9118-0, Vol.14, pg. 377-391, 2011.
- 13. Intelligent separation of mixed speech signal using fourier spectra and back propagation Algorithm International Journal of speech processing, Vol. 3, No.1, pg. 15-25, 2009.

Conference/Seminar/Workshop Organized

Sl.No.	National/ State level	Conference Name	Date
1.	National Level Conference in	IARCS Theory of Concurrent	27 th & 28 th
	St.Josephs College(Autonomous),	Systems	August 2004
	Trichirapalli.		
2.	National Level Seminar in Shrimathi	Emerging Trends of	23 rd & 24 th
	Indira Gandhi College, Trichirapalli.	Mathematical Techniques and	February 2007
		their applications in Computer	
		Science	
3.	National Level Conference in	Bio informatic Tools for Gene	7 th & 8 th
	Shrimathi Indira Gandhi College,	and Protein Analysis	September 2007
	Trichirapalli		
4.	State Level Seminar in National	Research Directions in	22 nd December

	Institute of Technology, Trichirapalli	Information Technology and	2006
		Applications	
5.	State Level Seminar in National	Mobile and Pervasive	4 th August 2007
	Institute of Technology, Trichirapalli.	Computing	
6.	State Level Seminar in Shrimathi	Computer Oriented	10 th & 11 th
	Indira Gandhi College, Trichirapalli	Mathematical Techniques	August 2007

- Attended a Virtual Webinar on "DEFINE AND DESIGN YOUR DESTINY" conducted by Shrimati Indira Gandhi College on 20th January 2021.
- 2. Attended a Statewide Data Science Bootcamp on "1st STEP TOWARDS A CAREER IN DATA SCIENCE" conducted by INLustro from 1st March 5th March 2021.
- Attended Oneday National Seminar on "ILLUMINATING MASTERY OF BIG DATA, ANALYTICS & PYTHON" in virtual mode, organized by Department of Computer Science, Aiman College of Arts and Science for Women, Trichy-21on 6th October 2021.
- 4. Completed the course "Step into RPA" conducted by UIPath, Academic Alliance on 23/12/2021
- 5. Participated in the National Cyber Security Awareness Program organized by Department of Computer Applications, Bharathiyar University, Coimbatore-641 046 on 28th October 2021.
- 6. Participated in the Faculty Development Programme on "TABLEAU" in virtual mode, organized by the Department of Computer Science, Information Technology and Computer Applications, Shrimati Indira Gandhi College, Trichirappalli -02, from 14th June to 24th June 2022.
- 7. Completed Technical Proficiency Test organized by Inspire Softech Solutions, Chennai -59, in the month of December 2022
- 8. Participated in Celebration of Science Festival (Vigyan Utsav) under the theme of Science Communication & Popularisation conducted on 7th February 2022
- 9. Participated in One Week Online Faculty Development Programme on "Communication System using Machine Learning Algorithms(CSMLA) organized by Department of Electronics & Communication Engineering, Annamacharya Institute of Technology and Science, Hyderabad during 14-19 March 2022
- 10. Participated in 5 hours of Faculty Development Program on Microsoft Azure AI Fundamentals (Online FDP) conducted by ICT Academy on 14th March to 16th March 2022.
- 11. Participated in One week Faculty Development Program organized by Department of Computer Science & Applications, Vivekananda Arts and Science College for Women, Sankagiri from 20-01-2025 to 25-01-2025