

CURRICULAM VITAE

Dr. Sumathy S

Mob: +91 9962516307 / 7812830022

E-mail: sumathymurugan@gmail.com

Date of Birth : 31 July 1984

Sex : Female

Marital Status : Married.

Address : Old No. 6, New No. 56A, Sundaram 3rd Street,
Vyasarpadi, Chennai-600039.



PROFILE:

Objective: Dedicated and accomplished academic professional with over 17 years and 10 months of experience in teaching, research, and curriculum development. Seeking a leadership role in a reputable institution to contribute to academic excellence by enhancing curriculum design, improving student learning outcomes, and fostering an innovative and research-driven educational environment. Committed to aligning institutional goals with progressive teaching methodologies to drive student success and institutional growth.

ACADEMIC QUALIFICATIONS (from SSLC to Post Graduate)

Examinations/ Degree	Name of the Board/University	Year of Passing	Percentage of marks	Division/Class
SSLC	State Board	Mar 1999	65 %	First Class
HSC	State Board	Mar 2001	73.25%	First Class
BCA	SKP College, Chennai University of Madras	May 2004	77.3 %	First Class
MCA	GSS Jain College, Chennai. University of Madras	May 2007	82.3 %	First Class with Distinction (University Rank Holder)
SLET	Mother Teresa University	Feb 2016	Computer Science	Qualified General Category

RESEARCH DEGREE(s)

Degree	Title	Date of Award	Subject	University
M.Phil.	A Study on User Interface Design for Business Process Modeling and Visualization	Jan 2009	Computer Science	Vinayaka Mission University-Salem.
Ph.D.	Anomaly Intrusion Detection for Efficiently Aggregated and Clustered WSN Data Using Fuzzy Methodologies	Oct 2019	Computer Science	Bharathiar University-Coimbatore

PERIOD OF TEACHING EXPERIENCE (in years)

Name of the College/ University	Designation	From	To	Total Experience in Years
Thiruthangal Nadar College Chennai-51.	Assistant Professor & Head	July 2007	June 2019	12 years
Sir Theagaraya College- (SHIFT II) Chennai-21.	Assistant Professor & Head	July 2019	August 2024	5 years 2 months
St. George's Arts and Science College Chennai-30.	Assistant Professor	Sept 2024	Till date	8 months
				17 years 10 months

ACADEMIC PERFORMANCE INDICATORS

(A) RESEARCH PAPER PUBLISHED IN JOURNAL:

S. No.	Title	Journal Name with ISSN No.	First/ Co- author	Peer/ Scopus/ UGC /WoS
1.	Role of Anomaly IDS in Network Vol:02, December 2013, Pages No:168-173	International Journal of Communication Networking System P ISSN:2278-2427	FIRST	Peer Reviewed
2.	Detecting Anomaly IDS In Network Using Bayesian Network Vol 16, Issue 1, Ver. III (Jan .2014). Page No. 1-07	IOSR Journal of Computer Engineering (IOSR- JCE) E-ISSN :2278-0661 P-ISSN:2278-8727	FIRST	Peer Reviewed <i>IF-3.712</i>
3.	Anomaly Detection Using Clusters and Proximities Measures Vol:04, No.2, July –September 2014	International Journal of Computational Intelligence and Informatics ISSN:2349-6363	FIRST	Peer Reviewed
4.	Effectual and Rapid Aggregate Data Collection Using Wireless Sensor Network Vol.3, No.1, February 2014	International Journal of Technological Exploration and Learning (IJTEL) SCIENTIFIC RESEARCH PUBLICATION ISSN :2319-2135	Co- Author	Peer Reviewed
5.	Fuzzy Based Anomaly Intrusion Detection System for Clustered WSN	Research Journal of Applied Sciences, Engineering and Technology https://maxwellsci.com/msproof.php?doi=rjaset. 9.2622 ISSN :2040-7459 e-ISSN:2040-7467	First	A-II Scopus
6.	Outlier Detection Scheme to Handle Wireless Sensor Data	International Journal of Communication and Networking System (IJCNS),2015 Integrated Intelligent Research (IIR)- ISSN:2278-2427	First	Peer Reviewed
7.	Energy Efficient Cluster Head Selection Scheme for Secure Data Aggregation Using Mobile Sink in WSN Vol.10 No.64(2015)	International Journal of Applied Engineering Research https://www.ripublication.com/Volume/ijaerv10 n64spl.htm ISSN:0973-4562	Co- Author	Scopus
8.	Efficient Data Accumulation with Routing tree and Anomaly Attack Detection Using SAT VOL:119 No.12 ,2018	International Journal of; Pure and Applied Mathematics Academic Publication https://acadpubl.eu/hub/2018-119-12/articles/6/1509.pdf ISSN:1314-3395	First	Scopus
9.	Image Segmentation Using A Neoteric-Adaptive Fusion of Fuzzy C- Means Clustering Model And Fuzzy SVM Vol.12 No .7 (2021),1696-1707	Turkish Journal of Computer and Mathematics Education https://turcomat.org/index.php/turkbilmat/article/ view/3054 ISSN:1696-1707	First	Scopus
10.	Improving the State of Materials in Cyber security Attack Detection in 5G Wireless System Using Machine Learning	Material Today Proceeding/@2021 Science Direct ELSEVIER https://doi.org/10.1016/j.matpr.2021.04.171 ISSN: 2214-7853	First	Scopus

11.	Classification of Attacks in IOT Network Using Dense Neural Network Vol.37(5) 2022	Journal of Data Acquisition and Processing https://sjcicycl.cn/article/view-2022/1531.php ISSN :1004-9037	First	Scopus
12.	Traffic Road Sign Detection and Recognition Approach Using OCR Based on Efficientdet and ROI Extraction	BOOK CHAPTER CRC Press, Taylor & Francis, USA https://www.appleacademicpress.com/artificial-intelligence-and-machine-learning-for-business-/9781774917237	First	CRC Press, Taylor & Francis, USA
13	Breast Cancer Diagnosis in Radiology Image using Transfer Learning Techniques	IEEE Explorer 2024 https://ieeexplore.ieee.org/document/10526195 https://doi.org/10.1109/ICCAMS60113.2023.10526195 E-ISBN:979-8-3503-1706-0	Co- Author	Scopus
14	Blockchain Based Voting System for Secure and Transparent Electoral Processes	IEEE Explorer 2025 https://ieeexplore.ieee.org/document/10717101 E-ISSN:2575-7288	First	Scopus
15.	Natural Language Processing: Trends and Challenges	Indian Journal of Natural Science (IJONS) https://tnsroindia.org.in/journals.html Web of Science ISSN: 0976-0997	Co- Author	WoS

(B) PUBLICATIONS OF BOOK:

Year	Complete Book/ Chapter in Edited book	Authorship	Title of Book	Details of Publisher (National/ International)	ISBN No.
NOV 2020	Complete Book	Second	Python 3.X Programming	Charulatha Publications	ISBN No.978-93-8970-54-8
JAN 2021	Complete Book	First	Problem Solving Using Python 3.X	The Charulatha Publications	ISBN-No.13:978-93-5419-660-7
MAR 2021	Complete Book	Second	Environmental Studies	Charulatha Publications	ISBN No.978-93-90614-43-1
MAY 2023	Complete Book	First	Relational Database Management Systems with PL/SQL	Charulatha Publications	ISBN-13:978-93-5577448-4
MAY 2023	Complete Book	First	Software Project Management	VR Publications	ISBN-978-93-91332-65-5
OCT 2024	Complete Book	First	Java Programming	Charulatha Publications	-

(C) INVITED LECTURE AS RESOURCE PERSON:

Department	Role	Organized by
BCA Syllabus Revamping	SUBJECT EXPERT	TAMILNADU STATE COUNCIL FOR HIGHER EDUCATION MAY 2023

S. No.	Title of the Invited lecture/ Resource Person	Department	Organized by	International / National
1.	Awareness on Employability skill	Department of Computer science Association Inauguration	Government Arts and Science College. Chennai. MAR 6 TH -2023	National
2.	Virtual FDP on Digital Marketing	Department of Commerce in Computer Applications	Holy Cross College (Auto) Tiruchirappalli. JAN 22 ND -2024	National

(D) REVIEWER FOR INTERNATIONAL CONFERENCES:

S. No.	Title	Department	Organized by	Role	International / National
1.	Sustainable Advanced Computing ICSAC-2024	Department of Computer science	Bangalore Central campus	Reviewer	International
2.	Communication, Computing and Information Technology	Department of Information Technology	MOP Vaishnav college for Women	Reviewer	International
3.	Future Trends in Computing Technologies and Data Science	Department of Computer Science	Iterative International Publishers-IIP Series.	Editor	International
4	Advancements in Smart Computing & Information Security ASCIS-2024	Faculty of Computer Applications	Marwadi University Gujarat	Technical Committee Member and Reviewer	International
5.	IGI Global Scientific Publishing Book Submission System	Department of Computer science	Pennsylvania New York, New York Beijing, China	Technical Committee Member and Reviewer	International

(E) NPTEL-SWAYAM ONLINE COURSES CERTIFICATIONS AND FDP:

S.No.	COURSE NAME	Badges	Organized by	Percentage %	FDP Certificates
1.	Software Testing	-	MoE-Govt. of India JAN-FEB 2023	54%	-
2.	Introduction to IOT	ELITE & SILVER	MoE-Govt. of India JUL-OCT 2023	76%	✓
3	Cloud Computing	ELITE & SILVER	MoE-Govt. of India JAN -APR 2024	77%	✓
4	Machine Learning	ELITE & SILVER	MoE-Govt. of India JAN-MAR 2024 Course Topper	75%	✓
5	Operating System Fundamentals	-	MoE-Govt. of India JUL-OCT 2024	52%	-
6	Introduction to Database System	-	MoE-Govt. of India JAN-APR 2025	NOT YET	✓
7.	Computer Networks and Internet Protocol	-	MoE-Govt. of India JAN-APR 2025	NOT YET	✓
8.	AI with Python	-	MoE-Govt. of India MAY-JUN 2025	PURSUING	✓

(F) INTERNSHIP PROGRAM:

S. No.	Title	Department	Organized by	Period
1.	ORGANIZATION -INTERNSHIP TRAINING (offline)	Instrumentation	SRF LIMITED	11-5-2016 To 13-05-2016
2.	PCB DESIGN USING ALLEGRO (online)	Department of Computer science	PANTECH e LEARNING	1 month 27.02.2023 To 28.03.2023

(G) PAPER PRESENTED IN CONFERENCE AND PUBLISHED:

S. No.	Title of the paper presented	Title of Conference	Organized by	Whether International / National/ State
1.	Payload Based Anomaly IDS in Network	E-Governance & Cloud Computing Services E-GOV' 12	Department of Computer Application MGR university OCT 17 TH & 18 TH -2012	International Conference

2.	Anomaly Based Intrusion Detection Techniques Analysis in Network Behavior model Through	Innovation in Contemporary IT Research ICITR 2012	Department of Computer Science Quaid E-Millath Government College FEB 17 TH & 18 TH - 2012	International Conference
3.	E-Commerce-Reengineering for Change in Business Process	Mathematics in Engineering and Business Management ICMEB 2012 ISBN 978-81-8286-015-VT	Stella Maris College and Loyola Institute of Business Administration Chennai. MAR 9 TH & 10 TH -2012	International Conference
4.	Outlier Detection Scheme to Handle Wireless Sensor D	Computing and Intelligence Systems ICCIS 2015	PG & Research Department of Computer Science and Applications DG Vaishnav College MAR 19 TH & 21 ST -2015	International Conference
5.	Secured Borealis Data Stream Management System using AIDS	Recent Trends in Computing Technology ICRTCT -2016	PG Department of Computer science University of Madras IDE FEB 22 ND & 23 RD -2016	International Conference
6.	Future Technology 5G- An Overview	Current Trends in Mobile Computing and Communication	Department of Computer science Guru Shree Shantivijai Jain college for women. Chennai. FEB 21 ST -2020	National Conference
7.	Monitoring memory usage and execution time for the noise addition techniques using images data augmentation	AI Powered Social Media Marketing NCAISSM-2024 ISBN:978933402450	Department of Computer science Government Arts and Science College for men. Nandanam MAR 14 TH -2024	National Conference
8	The current Status of AI Innovation: Expanding, Converging, and Ethical Needs	ISBN:9788197091773	Department of Computer science Sengalavaraya Arts and Science College Chennai. MAR 2 ND - 2024	National Conference
9	Novel Analytics in Unstructured Text and Natural Language Processing an Extensive Review	Blockchain and AI ICBCAI-2024 ISBN:9789384389383	PG Department of IT DG Vaishnav college- chennai JAN 23 RD & 24 TH -2024	International Conference
10	Comparative Analysis of Elgamal and DES Algorithm Integrated with Play Fair Cipher Encryption.	Information, System and Convergence Applications ICISCA 2024 ISBN:9788197236334	ICISCA-INDIA Co-Organized by Daegu University, Korea. AUG 9 TH - 11 TH -2024	International Conference

11	Natural Language Processing: Trends and Challenges	Emerging Trends in Computer Science & Technology NCETCST 2024	Thiruthangal Nadar College Chennai With ESN Publications AUG 8 th -2024	National Conference
----	--	---	--	---------------------

(H). LIST OF ATTENDED WEBINAR/WORKSHOP/FDP

S. No.	Title of the Webinar/Seminar/Workshop
WORKSHOP	
1.	National Level Capacity Building Workshop on Artificial Neural Network, University of Madras, Chennai.
2.	National workshop on the Academic and Technical Report Writing, DG Vaishnav College, Chennai.
3.	Workshop on Networking Training, Bharath University Selayur.
4.	Workshop on Network, Simulator –NS2-Computer Society of India.
5.	Hadoop and Thesis Writing – Workshop – Thiruthangal Nadar College, Chennai
6.	National Workshop on Cyber Crime-Ethical Hacking & Security Soka Ikeda College of Arts And Science For Women.
7.	Latest Trends in IOT with Big Data-Workshop, Thiruthangal Nadar College.
FACULTY DEVELOPMENT PROGRAMME	
1.	Beyond Professionalism: An Innovative Teacher -FDP Thiruthangal Nadar College
2.	High Impact in Teaching Skills – FDP Thiruthangal Nadar College.
3.	Sharing Gifts –FDP Thiruthangal Nadar College
4.	Blockchain with cyber security-FDP Easwari Engineering College.
5.	Wake of COVID-19 –FDP Patrician College of Arts and Science.
6.	Recent Trends in Emergent Technologies –FDP Shri Shankar Lal Sundarbai Shan sun Jain college for women
7.	Current Trends and Technologies in It- FDP Guru Nanak College.
8.	Be And Lead the Change, For Positivity- FDP Guru Shree Shantivijai Jain College for Women.
9.	Emerging Research Trends in Computer Science & Applications- FDP KG College of Arts & Science.
10.	Assessment & Tools –FDP SRM Institute of Science and Technology Ramapuram Campus.
11.	Machine Learning and Deep Learning for Real –Time Application-FDP Sona College of Arts and Science.
12.	Recent Advancements of Machine Learning in Terms of AI & IOT-FDP SRM Institute of Science and Technology Ramapuram Campus.

13.	Art of Writing Research Article in Hi-indexed Journals-FDP Nehru Arts and science college.
14.	Current Trends in Information Technology-FDP , Nehru Arts and Science College, Coimbatore.
15.	Recent Research Convergence in Artificial Intelligence and Internet of Things –FDP Bon Secours College for Women.
16.	Advanced Techniques in Computing Sciences and Applications- FDP Saveetha College of Liberal Arts and Science.
17.	Deep Learning and IOT Driven Smart Applications-FDP 24 TH JUNE TO 29 TH JUNE 2024 MLR Institution of Technologies
18.	Strategies to Find out Genuine Journals and Their Indexation in different platforms -FDP 4 TH NOV 2024 PROGREZZ Academy

WEBINAR	
1.	How to Create Web project using JSP, Servlet, JDBC Connection, NetBeans -Webinar, Bon Secours College for Women.
2.	Programming with python-A new ERA in Learning- Webinar, Bharathiar University Arts and Science College
3.	COVID Impacts on Technology –Webinar, Nallamuthu Gounder Mahalingam college, Pollachi.
4.	Artificial Intelligence and Neural Networks Accelerator, Today and Tomorrow – Webinar, AJK College of Arts and Science.
5.	Recent Trends in Machine Learning –Webinar, MEASI Institute of Information Technology.
6.	Data Visualization towards Data Science-Webinar-Francis Xavier Engineering College.
7.	Data Science –Webinar, Mar Gregorios College Arts & Science.
8.	Data Analytics using MS EXCEL-Webinar, Dr. Ambedkar Law University School of Excellence in Law.
9.	Use of Elsevier Tools in Research Workflow”-National Webinar, University of Madras.
10.	Impact on COVID -19 on IT Industry-Webinar, MOP Vaishnav College.
11.	Digital ID / Publishing Articles in Peer Reviewed Journals”- National Level Webinar, Muthurangam Govt. Arts College.
12.	Data Privacy and Protection - National level Webinar on Information Security, AMET.
13.	National Level Seminar on Big Data Analytics, Hadoop & Ecosystem. SRM Institute of Science and Technology.
14.	National Conference on Research Advances in Information & Communication Technology – NCRAICT 2019, GOVT. Arts College for Men.

Declaration

I declare that all the statements made are true to the best of my knowledge and belief.

Signature

Dr. Sumathy S