

BIO DATA



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Designation : Assistant Professor (Senior Grade)
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1. Educational Qualification:

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Computer Science and Engineering	Mysore University	1999
M.E	Computer Science and Engineering	Anna University	2009
Ph.D	Information and Communication Engineering	Anna University	Pursing

2. Professional/ Industry Experience : (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Assistant Professor	Ramco Institute of Technology	June 2 ,2014	Till Date
2	Assistant Professor	S.Veerawamy Chettiar College of Engineering and Technology	June 8 ,2009	April 4, 2014

3. Research Interest: Data Analytics, Machine Learning, Networking, Wireless Sensor Networks

4 Publications

4.1 Journal Publications

1. **M.Swarna Sudha**, K.Valarmathi, U.Keerthana, Machine Learning Approach for Sustainable Safeguarding Electronic Patient Record, Journal of Green Engineering, vol.10, no.10, pp. 9763-9778, November 2020 ISSN: 1904-4720, (Scopus Indexed)
2. **M.Swarna Sudha** and A.Valarmathi, An optimized deep belief network to detect anomalous behavior in social media, Journal of Ambient Intelligence and Humanized Computing, January 2021, DOI 10.1007/s12652-020-02708-2 (SCI)
3. **SwarnaSudha.M**, Aishwarya.K, Sujitha.S and Susmitha M, published a paper titled Detecting Website Defacement Using Machine Learning Techniques in the Journal of Next Generation Technology (JNxtGenTech), Vol. 1, Issue 1, pp.47-55, on 29 June 2021.

4.2 Conference Publications

1. **M.Swarna Sudha**, B.Vijaylakshmi and P.M.G.Jegathambal, “Security Problems in storing big data in Cloud Computing”, National Conference on Innovations in Engineering, Science and Technology (NCIEST 2015), March 2015 at Ramco Institute of Technology, Rajapalayam
2. **M.Swarna Sudha**, **R.Keerthana**, M.Rajeswari and P.Sarajini, “An Online Mechanism for Resource Allocation”, International conference on Recants trends in Electrical, Electronics and Communication, March 2017 at P.S.R Engineering College, Sivakasi.
3. **M.Swarna Sudha**, Mohana Kalai Selvi, B.Mohana Priya and A.Meera Parveen, “Multi Cast Tree Construction In Wireless Sensor Network”, National Conference on Innovations in Engineering, Science and Technology (NCIEST 2017), March 2017 at Ramco Institute of Technology, Rajapalayam.
4. **M.Swarna Sudha**, N.Harini Subramaniann, N.Lavanya Sankari, “Intrusion detection Based on state context and hierarchical trust in wireless sensor networks”, International conference on Engineering and advancement in technology, March 2018 at Sri Krishna College of Technology, Coimbatore.
5. **M.Swarna Sudha**, K.Arun Priya, D.Lakshmi Priya and A.Kruthika, “Data Mining approach for anomaly detection in social network analysis”, International Conference on Recent Trends in Engineering, Computers, Information Technology and Applications (ICRTECITA-2018), March 2018 at PSNA College Of Engineering & Technology, Dindigul
6. **M.Swarna Sudha**, K.Arun Priya, D.Lakshmi Priya and A.Kruthika, “Data Mining approach for anomaly detection in social network analysis”, International Conference on Inventive Communication and Computational Technologies (ICICCT-2018), April 2018 at Ranganathan College of Engineering, Coimbatore.
7. **M.Swarna Sudha**, C.M.Ananthi, M.Kanaga Priya, V.Padmavathi and V.Poornam, “Rumour Detection in Social Networks”, International Conference on Recent Developments in Engineering (ICRDE’19), March 2019, Dhaanish Ahmed Institute of Technology, Coimbatore.
8. **Mrs.M.SwarnaSudha**, Ms.S.Balasaraswathi, Mr.D.Rajkumaran, Mr.P.Gowthamraj, Using Deeplens (AWS) - Attendance Management System International Conference on Smart Engineering Technologies (IWCSET-2020), Ramco Institute of Technology, June, 2020

9. **Mrs.M.Swarna Sudha** and G.K.Shunmuga Priya, Next Location Prediction using Machine Learning Techniques, 2nd International Conference on Recent Trends in Engineering and Scientific Technology 2020, March 2020, Rathinam Technical Campus, Coimbatore
10. **M.Swarna Sudha**, M.Prabhu and V.Sudarsana Ramji presented a paper titled, Click Fraud Detection on Social Media Advertisement in the National Conference on Innovation and Challenges in Geotechnical Engineering, Computer Science and VLSI (NCGCE-21) organized by IES College of Engineering, Chittilappilly, Thrissur on 02 June, 2021.
11. **M.Swarna Sudha**, M.Prabhu and V.Sudarsana Ramji presented a paper titled, Click Fraud Detection on Social Media Advertisement in the National Conference on Innovation and Challenges in Geotechnical Engineering, Computer Science and VLSI (NCGCE-21) organized by IES College of Engineering, Chittilappilly, Thrissur on 02 June, 2021.

5. Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1	Art of Counselling	Ramco Institute of Technology	03.08.2014	-
2	Workshop on IPR awareness programme	Ramco Institute of Technology	23.08.2014	-
3	Network Simulation(NS2) for MANET, VANET & Sensor Networks	Kalasalingam University, Krishnankoil.	05.09. 2014	06.09. 2014
4	AU FDTP on Computer Network	Ramco Institute of Technology	15.12.2014	21.12. 2014
5.	FDP on Introspection of Teaching Learning Process	Ramco Institute of Technology	23.12.2014	30.12..2014
6	FDP on “IBM Rational Suite Architect and Rational Enterprise”, Microgenesis, Bangalore.	Ramco Institute of Technology & Microgenesis	03.04 .2015	04.04 2015
7	Cloud Computing for Genomics Analysis	National Engineering College	09. 07. 2015	10 .07. 2015
8	Value Added Courses “Mobile application development and J2EE Tools”, Hexaware Technologies, Chennai	Ramco Institue of Technology	27 11.2015	03.12 2015
9	Awareness & internal Audit Training on ISO 9001:2015	Ramco Institue of Technology	18.12.2015	19.12.2015

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Sl.No	Title of the event	Organized by	Date	
			From	To
10	ICTACT workshop on cloud Infrastructure and Services.	Ramco Institute of Technology	04.01.2016	08.01. 2016
11	ICT Academy Introduction to J2EE programming	Ramco Institute of Technology	16.07. 2016	17.07 2016
12	Wireless Sensor Networks – Research Perspective	PSG College of Technology, Coimbatore	24.06 2016	25.06 2016
13	ICTACT FDP on Hadoop	Ramco Institute of Technology	19 .12.2016	23 .12 2016
14	CSI Workshop On Data Science (Big Data, MongoDB, Frameworks)	Ramco Institute of Technology & CSI	04.12.2017 to	06.12.2017
15	Industrial Training on SQL internals	Ramco Systems, Chennai	30.05.2018	01.06.2018
16.	Anna University Approved Faculty Development Training Programme on “IT6006- Data Analytics”	Ramco Institute of Technology	06.06.2018	12.06.2018
17	Two Days workshop on Writing Research Papers, Citation Analysis, Plagiarism Getting Patent and Copy right	Ramco Institute of Technology	29.06.2018	30.06.2018
18	Faculty attend In plant Training	BSNL Virudhunagar	26.06.2018	27.06.2018
19	Two Days workshop on “Writing Research Papers, Citation Analysis, Plagiarism Getting Patent and Copy right	Ramco Institute of Technology	29. 06.2018	30.06.2018
20	Faculty Development Programme on “Machine Learning with Python A complete hands-on Approach”	New Horizon College of Engineering, Bangalore	07.01.2019	11.01.2019
21	Data Science with Python	ICT Academy	23.05.2020	29.05.2020
22	FDP on “Deep Learning & its Applications: Theory to Practice	Sasi Institute of Technology & Engineering, Tadepalligudem	06.07.2020	10.07.2020

Sl.No	Title of the event	Organized by	Date	
			From	To
23	FDP on “Machine Learning using Python	Ramco Institute of Technology	08.07.2020	12.07.2020
24	FDP on “Role of Faculty in Challenging Situation”	Ramco Institute of Technology	26.07.2020	-
25	STTP on “ Hands on Training: Virtual Laboratory	Ramco Institute of Technology	04.08.2020	-
26	FDP on “Big Data Analytics With Deep Learning”	Poornima Institute of Engineering and Technology	18.08.2020	22.08.2020
27	STTP on “Supporting Open Technologies for Deployed Artificial Intelligence”	P.S.R. Engineering College, Sivakasi	16.11.2020	21.11.2020

6. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Workshop on IBM Work Light by Mr.K.Jagadeesh, Microgenesis, Bangalore.	RIT & MicroGenesis Bangalore	22.05.2015	23.05.2015
2.	Value added course on“Java Training” by M/s Coursee	Ramco Institute of Technology	01.12.2015	05.12.2015
3.	Science day - Coordinator for CSE Department Project	Ramco Institute of Technology	28.12.2015	-
4.	C programming for School children	Ramco Institute of Technology	15.05.2017 to 20.05.2017	-
5.	Networking Termination for ECE,EEE department non-teaching Faculty Members	Ramco Institute of Technology	07.06.2017	08.06.2017
6.	Networking Termination for II Year students of EEE,CSE, ECE & Mechanical Department	Ramco Institute of Technology	14.07.2017	05.08.2017

Sl.No	Title of the event	Organized by	Date	
			From	To
7.	C programming for Faculty Member (ECE, EEE members)	Ramco Institute of Technology	10.06.2017	17.06.2017
8.	TECHYUGA' 17 State Level Technical Symposium (Paper Presentation, Crazy Quiz)	Ramco Institute of Technology	12.08.2017	-
9.	CSI Workshop On Data Science (Big Data, MongoDB, Frameworks)	Ramco Institute of Technology & CSI	04.12.2017 to	06.12.2017
10.	Faculty Coordinator for Technical quiz in Science Day Celebration	Ramco Institute of Technology	28.02.2018	-
11.	"Training for SQL" for Ramco Systems Placed Students	Ramco Institute of Technology	12.02 2018 to	March 2018
12.	State level Coding and Mobile App development contest "Davinci Koodittaa"	Ramco Institute of Technology & CSI	23.03.2018	-
13.	Networking Termination for II Year students ECE, EEE and CSE students	Ramco Institute of Technology	04.08.2018 (8 Session)	
14.	CSI Workshop on "Digital Forensics and Security in IoT"	Ramco Institute of Technology	11.08.2018	-
15.	TECHYUGA' 18 State Level Technical Symposium (Paper Presentation, Crazy Quiz)	Ramco Institute of Technology	31-08-2018	-
16.	CSI Workshop on "Python tools to data analysis and Artificial Intelligence"	Ramco Institute of Technology	17.11.2018	-
17.	Value Added Course on "SQL" (III year ECE students)	Ramco Institute of Technology	10.12.2018 to	14.12.2018
18.	Faculty Coordinator for Project Exhibition in Science Day Celebration	Ramco Institute of Technology	28.02.2019	-

Sl.No	Title of the event	Organized by	Date	
			From	To
19.	One Day Creative Learning Programme	Ramco Institute of Technology	08-02-2019	-
20.	Workshop on” Xamarin” (Alumni of CSE from Ramco systems, Chennai)	Ramco Institute of Technology	19.01.2019	-
21.	Finishing School Course on Computer Python Programming	Ramco Institute of Technology	22-04.2019	27 .04.2019
22.	Techyuga’19 symposium Department In charge	Ramco Institute of Technology	31.08.2019	-
23.	Software Test Automation	Ramco Institute of Technology	15.02.2020	-
24.	Tricks for Industry Placement	Ramco Institute of Technology	06.06.2020	-
25.	Academic vs Industry	Ramco Institute of Technology	31.06.2020	-
26.	Tricks to Tackle TCS	Ramco Institute of Technology	21.06.2020	-
27.	Network termination	Ramco Institute of Technology	11.01.2020	06.02.2020
28.	Mastering Interview skills	Ramco Institute of Technology	26.07.2020	-
29.	Know About InfyTq Platform And Infosys Certifications	Ramco Institute of Technology	22.03.2021	-
30.	Placement talk on “Get an Edge with Aspire Systems	Ramco Institute of Technology	24.03.2021	-
31.	Career opportunities in software testing	Ramco Institute of Technology	13.06.2021	-
32.	Guidelines for online interview Success	Ramco Institute of Technology	09.07.2021	-

7. Online Courses

SL.No	Course title	University	Date
1.	Introduction to Programming Using Python	The University of Texas UT ArlingtonX	10.01.2016 to 17 .03. 2016

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2.	Introduction to Programming with Java	Universidad	01.01.2016 to 09.02. 2016
3.	Build a Modern Computer from First Principles: From Nand to Tetris	Hebrew University of Jerusalem, Israel	2016 – 2017 (Odd Semester)
4.	Internet History, Technology, and Security	University of Michigan	10.01.2017 to 01.04.2017
5.	Essential math for machine learning: R Edition	Microsoft	26. 07. 2018 to 01 .10. 2018
6.	Calculus 1A: Differentiation, MITx	Massachusetts Institute of Technology	29.08.2018 to 21.11.2018
7.	Data Science: R Basics,	Harvard University, US	15 .12, 2017 to 06 .01 2018
8.	IT Support: Network essential	Microsoft	10.01.2017 to 01.04.2017
9.	Calculus1C: Coordinate Systems & Infinite Series	Massachusetts Institute of Technology	06.03.2019 to 01.05. 2019
10.	Introduction to Computational Thinking and Data Science	Massachusetts Institute of Technology	02.11.2019 to 19.12.2019
11.	Introduction to Data Science in Python	University of Michigan	01.05.2020 To 06.06.2020
12.	Fundamentals of Network Communication	University of Colorado System	01.04.2020 To 06.06.2020
13.	Introduction to Data Science in Python	University of Michigan	26. 07. 2020 to 01 .10. 2020
14.	Fundamentals of Network Communication	University of Colorado System	29.08.2020 to 21.11.2020
15.	Analyzing Data with Python	IBM	15 .12, 2020 to 06 .01 2020
16.	Visualizing Data with Python	IBM	10.01.2021 to 01.04.2021
17.	Python Basics for Data Science	IBM	06.03.2021 to 01.05. 2021
18.	Data Science Tools	IBM	02.11.2021

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			to 19.12.2021
19.	Data Science: Linear Regression	Harvard University	01.05.2021 To 06.06.2021
20.	NLP: Twitter Sentimental Analysis	Coursera project work	26. 07. 2021 to 01 .10. 2021
21.	Introduction to Cloud Computing	IBM	29.08.2021 to 21.11.2018

8. Membership in Professional societies:

- Life member in Indian Society for Technical Education (ISTE), New Delhi
- Computer Society of India (CSI).