

Dr. SHANTHA MARY JOSHITTA R



Name : Dr. Sr. R. SHANTHA MARY
JOSHITTA

Designation : Head & Assistant Professor

Department : Computer Science

Date of Birth : 01.06.1975

Date of Appointment: 13.06.2001

Present Address: St. Anne's Convent
J. A. College Campus
Periyakulam, Theni Dt. – 625 601

Telephone No: 9940224307

Email : rjoshitta@annejac.ac.in
rjoshitta@gmail.com

ACADEMIC

1.	Ph.D in Data Security in IoT Environment	St Joesph's College (Autonomous), Bharathidasan University, Trichy.	2019
2.	Statistics for Data Science and Business Analysis	Udemy Online Course	2022
3.	The Ultimate Unofficial Udemy Online Course Creation Guide	Udemy Online Course	2022
4.	Tensorflow 2.0: Deep learning and Artificial Intelligence	Udemy Online Course	2022
5.	Online Certification Course on Artificial Intelligence Concepts, Principles and Practices	Udemy Online Course	2021
6.	Online Certification Course on Data Science for Engineers	NPTEL	2021

7.	Online Certificate Course on Deep Learning Prerequisites: The Numpy Stack in Python (V2+)	Udemy Online Course	2021
8.	Online Certificate Course on Machine Learning, Data Science and Deep Learning with Python	Udemy Online Course	2021
9.	Virtual Training Program and Faculty Development Program On Data Science	Andhra Pradesh State Skill Development Corporation (APSSDC) and ExcellR	2020
10.	Online Certificate Course on The Complete Cyber Security Course: Network Security	Udemy Online Course	2020
11.	Online Certificate Course on Deep Learning Prerequisites: The Numpy Stack in Python	Udemy Online Course	2020
12.	Online Certificate Course on Modern Deep Learning in Python	Udemy Online Course	2020
13.	Complete Python Bootcamp From Zero to Hero in Python	Udemy Online Course	2020
14.	Online Certificate Course on Python programming for beginners from Scratch	Udemy Online Course	2019
15.	State Eligibility Test (SET)	Mother Teresa Women's University, Kodaikanal	2017
16.	Counsellor Training Programme	Anugraha, Capuchin Institute of Counselling, Psychotherapy and Research, Dindigul, Tamilnadu	2013
17.	M.C.A	Cauvery College for Women, Bharathidasan University, Trichy.	2001

18.	B.Sc. Computer Science	Cauvery College for Women, Bharathidasan University, Trichy.	1998
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Teaching Experiences

- **Working as Head** of Computer Science, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni Dt. Since 2008 to 2014, 2019- till date.
- **Working as Assistant Professor** in Computer Science, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni Dt. – 625 601, since 2001 - 2003 and 2007 – 2015, 2018- till date.
- **Worked as Controller of Examinations** in Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, since 2014 to 2015.
- **Worked as Tamil Programme Producer**, Radio Veritas Asia, Buick St., Fairview Park, Quezon City, Metro Manila – 1106, Philippines, Since 2004 to 2007.

Research Experiences

1. Research Papers Published: Papers Published : 31
(Scopus – 8, IEEE – 5, Elsevier – 1, ACM – 1, UGC Care List - 8)
Book Chapter:3
2. Specialization Security in Internet of Things, Big Data Analytics and Data Science
3. Paper Presentation Papers presented in Inter. Conf. :18
National / State-level Conf. : 11
4. International Paper Presentation **St. Anne’s College, Oxford University, London, UK – August, 2019**

Patent Registered

1. Dr. K. Venkatesh, Dr. B. Dwarakanath, DR. R. Shantha Mary Joshitta, Dr. A. Jenifer Jothi Mary, Mrs. B. Jasmine, Ajith K A Nair, Dr. R. Kavitha, **“Artificial Intelligence Based Data Traffic Analysis In IoT Wireless Sensor Network Nodes”**, Indian Patent, Application No.202241051223 A, Publication Date : 16/09/2022
2. Dr. Gupta Neetesh Kumar, **Dr R Shantha Mary Joshitta**, Dr A Jenifer Jothi Mary, Dr. Pradeep Gangurde, Dr. Kailas Aute, **“Wearable device for detection of omicron symptoms based on biomedical and proximity sensor and artificial intelligence”**, Germany Utility Patent Application of the invention, Patent Application No. 20 2022 101 331.4, Publication Date : 15/05/2022

Research Project Received

S.No.	Project Title	Type	Duration	Funding Agency	Amount Received
1.	REM: Recommender Engine to forecast Mango Leaf Diseases	STUDENT PROJECT PROPOSAL	2022-2023	TNSCST, Chennai	Rs. 7,500/-

Book Chapter

1. **R. Shantha Mary Joshitta**, A. Jenifer Jothi Mary, **“Hybrid One Time Password Algorithm for Secure Healthcare IoT Data Access”**, Research Highlights in Mathematics and Computer Science Vol. 8, 8 April 2023 , Page 61-77.
<https://doi.org/10.9734/bpi/rhmcs/v8/6041A>
2. Stephen R., Ayshwarya B., **R. Shantha Mary Joshitta**, Hubert B. J. Shanthan, **“Internet of Things (IoT): The Standard Protocol Suite for Communication Networks”**, Cases on Edge Computing and Analytics, IGI Global, DOI: 10.4018/978-1-7998-4873-8.ch003, January, 2021, pp. 55-72. ISBN10: 1799848736

3. Shantha Mary Joshitta R. and Arockiam L., **“ESIHS: Enhancing Security in IoT enabled smart healthcare system”**, Chapter 14, Advanced Engineering Research and Applications, Research India Publications, May, 2017, pp. 212-223.

Papers Published in International Journals

1. **Shantha Mary Joshitta**, Sunil M P, Badria Sulaiman Alfurhood, A. Bodhankar, Ch.Sreedevi and R. Khanna, **"The Integration of Machine Learning Technique with the Existing System to Predict the Flight Prices,"** 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), Greater Noida, India, 2023, pp. 398-402, DOI: 10.1109/ICACITE57410.2023.10182539.
2. **Shantha Mary Joshitta**, Sanjeev Kumar Prasad, Sweta Kumari Barnwal, Aman Vats, Sura Rahim Alatba, **“Object Activity Tracking for Webcam Using Hog Algorithm Comparing Background Subtraction Algorithm”**, 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), Greater Noida, India, 2023, pp. 848-851, DOI: 10.1109/ICACITE57410.2023.10182978
3. Jasmine B, **Shantha Mary Joshitta R**, Jenifer Jothi Mary A, **“Framework for Building Recommender Engine to Forecast Mangifera Indica Foliar Pathogens”**,
4. Jenifer Jothi Mary A, **Shantha Mary Joshitta R**, Jasmine B, Princitta R, **“An Analysis on School Dropouts During Covid-19 Using Machine Learning Algorithms”**,
5. Dr.G.M.Karthik, **Dr Shantha Mary Joshitta**, Rajesh R, B.Manjulatha, **“Design of Covid19 Detection Based On Relative Eccentric Feature Selection Using Deep Vectors Regression Neural Network for Corona Virus”**, 2022-IEEE International Interdisciplinary Humanitarian Conference for Sustainability (IIHC-2022), November 18th & 19th 2022, DOI: <https://doi.org/10.1109/IIHC55949.2022.10060368>

6. Shantha Mary Joshitta R, K. Mahender, Jenifer Jothi Mary, and A.Prasanth, **“Security Analysis of Hybrid One Time Password Generation Algorithm for IoT Data”**, 2418, 030021 (2022); <https://doi.org/10.1063/5.0081958>, 24 May 2022. Web of Science, Scopus Indexed
7. Shantha Mary Joshitta R, Jenifer Jothi Mary A and Arockiam L, **“Security Analysis of AroSheb_Jo, A Hybrid One Time Password Generation Algorithm for IoT Data”**, Proc. Of the International Virtual Conference On Emerging Trends In Computing (IVCET 2020), Bishop Heber College (Autonomous), Trichy, 14th December 2020
8. Jenifer Jothi Mary A and Shantha Mary Joshitta, **“Aspect Based Sentiment Analysis of Students’ Opinion Using Big Data Analytics”**, Our Heritage Journal, Volume 68, Issue 1, 2020, pp. 8683 – 8693. **(UGC Care Listed, IF: 4.912)**
9. Shantha Mary Joshitta R, Arockiam L and Sheba Kezia Malarchelvi P.D., **“Security Analysis of SAT_Jo Lightweight Block Cipher for Data Security in Healthcare IoT”**, ICCBDC 2019: Proceedings of the 2019 3rd International Conference on Cloud and Big Data Computing August 2019 Pages 111–116 <https://doi.org/10.1145/3358505.3358527>, 28 August 2019, ISBN: 978-1-4503-7165-0, **Indexed by ACM, Ei Compendex, Scopus and reviewed by Thomson Reuters -ISI Web of Science.**
10. Shantha Mary Joshitta R., Arockiam, L., **“SAT-Jo: An Enhanced Lightweight Block Cipher for the Internet of Things”**, Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018, 2019, pp. 1146–1150, 8663068. **Indexed by Scopus - Elsevier**
11. Jasmine B, Shantha Mary Joshitta R, Durga Devi R, **“Analyzing Retail Marketing in Theni district using Data Mining Approaches”**, International Journal of Scientific Research in Computer Science Applications and Management Studies (ISSN 2319 –1953), Volume 8, Issue

- 1, January 2019, pp. 1-6. **(UGC Approved Journal No.: 63611 - IF: 1.654)**
12. Shantha Mary Joshitta R. and Arockiam L., **“A Novel Block Cipher for Enhancing Data Security in Healthcare Internet of Things”**, Journal of Physics: Conference Series, 2018, Volume 1142, Issue 1, pp. 1-12. DOI:10.1088/1742-6596/1142/1/012002 (ISSN: 1742-6596, H-Index: 59) (Indexed by Web of Science & Scopus and UGC Approved Journal No.: 19222)
13. Shantha Mary Joshitta R. and Arockiam L., **“Architecture for Secure Data Management in Healthcare Internet of Things”**, International Journal of Scientific Research in Computer Science Applications and Management Studies, ISSN 2319 – 1953, Volume 7, Issue 3, 2018, pp. 1-5. (UGC Approved Journal No.: 63611 - IF: 1.654)
14. Shantha Mary Joshitta and Arockiam L., **“SAT_Jo: An enhanced Lightweight Block Cipher for Enhancing Data Confidentiality in Internet of Things Environment”**, Proc. of the Second International Conference on Intelligent Computing and Control Systems (ICICCS), 2018, **IEEE**, DOI: 10.1109/ICCONS.2018.8663068
15. Shantha Mary Joshitta R. and Arockiam L., **“ANNA: A Unified Framework for Data Security in Healthcare Internet of Things”**, ICTACT Journal on Communication Technology, ISSN: 2229-6948 (Online), Volume 9, Issue 2, 2018, pp. 1740-1748. DOI: 10.21917/ijct.2018.0255. **(Free Journal- UGC Care & Scopus Listed)**
16. Shantha Mary Joshitta and Arockiam L., **“Key Generation Algorithm using Soft Set for data security in Internet of Things”** 3rd International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2018, Malaviya National Institute of Technology (MNIT), Jaipur – **Elsevier, Scopus**
17. R. Shantha Mary Joshitta and L. Arockiam, **“Device authentication mechanism for IoT enabled healthcare system”**, IEEE, December 2017, **available at:** <http://ieeexplore.ieee.org/document/8186646/>

DOI: 10.1109/ICAMMAET.2017.8186646

18. R. Shantha Mary Joshitta and L. Arockiam, **“Authentication Of Energy Constrained Devices In Internet Of Things Based Healthcare System”**, International Journal of Computational Intelligence and Informatics, June 2017 (Accepted), **(Free Journal)**
19. R. Shantha Mary Joshitta and L. Arockiam, **“Secure Two-Tier User Authentication Mechanism For IoT Enabled Smart Healthcare System”**, International Journal of Recent Scientific Research, Volume 8, Issue, 7, pp. 18259-18263, July, 2017, DOI: <http://dx.doi.org/10.24327/ijrsr.2017.0807.0478>
(UGC Indexed Journal, NO: 46629) IF. 6.86.
20. R. Shantha Mary Joshitta and L. Arockiam, **“Hybrid One Time Password Mechanism for User Authentication in Internet of Things Environment”**, Special Issue of Journal of Advanced Research in Dynamical and Control System, Issue 17, 2017, pp. 1547-1558. **(Scopus - H -Index: 6)**
21. R. Shantha Mary Joshitta and L. Arockiam, **“EPC Based Authentication of Devices in the Smart Healthcare System”**, International Journal of Electrical, Electronics & Computer Science Engineering (IJECESE), Volume 4, Issue 4, 2017 **(UGC Indexed Journal, NO: 44927), ISSN: 2348-2273, pp. 6-11. (IF: 4.255)**
22. R. Shantha Mary Joshitta and L. Arockiam, **“A Neoteric Authentication Scheme for IoT Healthcare System”**, International Journal of Engineering Sciences & Research Technology (IJESRT), Volume 5, Issue. 12, 2016, pp. 296-303. **(IF.4.116).**
23. R. Shantha Mary Joshitta and L. Arockiam, **“Authentication in IoT Environment: A Survey”**, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Volume 6, Issue 10, 2016, pp. 140-145. **(IF 2.5).**
24. R. Shantha Mary Joshitta, L. Arockiam and P.D. Sheba Kezia Malarchelvi, **“A Novel Authentication Scheme for IoT enabled Smart**

- Healthcare System**", International Journal of Engineering Research & Technology(IJERT), Volume 4, Issue 29, 2016, 174-179.(**IF: 1.76**).
25. R. Shantha Mary Joshitta and L. Arockiam, "**Security in IoT Environment: A Survey**", International Journal of Information Technology and Mechanical Engineering (IJITME), Volume 2, Issue 7, 2016, pp. 1-8. (**IF: 0.791**).
26. S.Shyni, R. Shantha Mary Joshitta and Dr. L. Arockiam, "**Applications of Big Data Analytics for Diagnosing Diabetic Mellitus: Issues and Challenges**", International Journal of Resent Trends in Engineering and Research, Volume 02, Issue 06, 2016, pp. 454 -461. (**IF 3.344**).
27. R. Shantha Mary Joshitta and L. Arockiam, "**A Predictive Model to Forecast and Pre-Treat Diabetes Mellitus using Clinical Big Data in Cloud**", International Journal of Applied Engineering Research, Volume 10 Issue 82, 2015, pp. 55-59. (**IF .8**) (**Scopus Indexed**), **Anna Uni. Annex. II.**
28. K. Sujitha, R. Shantha Mary Joshitta and B. Nivetha, "**Impacts of Television Serials on Tamil Rural Women: A Data Mining Case Study of Theni District**", International Journal of Engineering and Computer Science, Volume 4 Issue 7, 2015, pp. 12974-12979. (**IF .564**).
29. R. Shantha Mary Joshitta, M. Nithya and P. Vidya, "**Consummate Cluster Labeling for Spread Network**", International Journal of Innovative Science, Engineering & Technology, Volume 1 Issue 6, 2014, pp. 376-381. (**IF 4.332**).
30. R. Shantha Mary Joshitta, N. Nagajothi and M. Sujitha, "**Ethical Issues Faced by college Students by the usage of Social Networking Sites with Reference to Theni District**", ZENITH International Journal of Multidisciplinary Research, Volume 4, Issue 2, 2014, pp, 63-71. (**IF 0.675**).
31. R. S. M. Joshitta, N. Divya and R. Princitta, "**A Study on Individual Tax Payers' Attitude in Theni District: A Data Mining Approach**",

International Journal of Computer Science Research and Application, 2013, Volume 03, Issue, 03, 2013, pp, 37-48.

32. R Shantha Mary Joshitta and R. Savithri, "**Open Source Software for Image Processing: A Comparative Study**", Salesian Journal of Humanities & Social Sciences, Volume IV, Issue 1, 2013.
33. R. Shantha Mary Joshitta and J. Arul Mary Jenitha Rani "**Tamil Web Blogs: A Boon for the Freedom of Expression**", Eubios Journal of Asian and International Bioethics, Volume 21, Issue 6, 2011, pp. 217 – 219.
34. G. Petricia Alpine Nirmala and R. Shantha Mary Joshitta, "**Smart Classroom is a Boon to Improve Computer Skills in Rural India: A Case Study of Theni District** " in the CiiT International Journal of Artificial Intelligence System and Machine Learning, Volume 3, Issue 3, 2011, pp. 156 – 161.

Funded Projects

35. Received TNSCST Funded project worth of 7,500/- under Student Projects Scheme 2022-2023.

Papers Presented in International Conferences

1. Shantha Mary Joshitta R and Jenifer Jothi Mary A, "**Security Analysis of Hybrid One Time Password Generation Algorithm for IoT Data**", Virtual Conference on Smart Computing and Advanced Communication (SCAC'21), PSNA College of Engineering and Technology, Dindugal 31.03. 2021.
2. Shantha Mary Joshitta R, Jenifer Jothi Mary A and Arockiam L, "**Security Analysis of AroSheb_Jo, A Hybrid One Time Password Generation Algorithm for IoT Data**", International Virtual Conference On Emerging Trends In Computing (IVCET 2020), Bishop Heber College (Autonomous), Trichy, 14th December 2020
3. Shantha Mary Joshitta R, Arockiam L and Sheba Kezia Malarchelvi P.D., "**Security Analysis of SAT_Jo Lightweight Block Cipher for Data Security in Healthcare IoT**", 3rd International Conference on Cloud and

Big Data Computing (ICCBDC 2019), St Anne's College in University of Oxford, Oxford, United Kingdom, August 28-30, 2019.

4. Shantha Mary Joshitta R. and Arockiam L., **“A Novel Block Cipher for Enhancing Data Security in Healthcare Internet of Things”**, International Conference on Internet of Things, Kristu Jayanti College (Autonomous), Bangalore, 5th December, 2018.
5. Shantha Mary Joshitta and Arockiam L., **“Key Generation Algorithm using Soft Set for data security in Internet of Things”** 3rd International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2018, Malaviya National Institute of Technology (MNIT), Jaipur – **ELSEVIER, Scopus**
6. Shantha Mary Joshitta and Arockiam L., **“SAT_Jo: A Lightweight Block Cipher for Enhancing Data Confidentiality in Internet of Things Environment”**, IEEE Second International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, 2018, DOI: 10.1109/ICCONS.2018.8663068
7. R. Shantha Mary Joshitta and L. Arockiam, **“Hybrid One Time Password Mechanism for User Authentication in Internet of Things Environment”**, 18th International Conference on Advanced Techniques in Engineering, Science & Management Organized by International Organization of Scientific Research and Development (IOSRD) Bangalore, India, held on 06 - 07 October 2017.
8. R. Shantha Mary Joshitta and L. Arockiam, **“User_Auth: Secure Two-Tier User Authentication Mechanism for IoT Enabled Smart Healthcare System”**, International Conference on Newer Engineering Concepts and Technology (iConnect2K17), organized by K. Ramakrishnan College of Technology, Tiruchirappalli, March 29-30, 2017.
9. R. Shantha Mary Joshitta and L. Arockiam, **“Device Authentication Mechanism For IoT Enabled Healthcare System”**, IEEE sponsored International Conference on Algorithms, Methodology, Models and

Applications in Emerging Technologies – 2017 (ICAMMAET), organized by Bharath University, Chennai, February 2017.

10. R. Shantha Mary Joshitta and L. Arockiam, **“EPCAMD: EPC Based Authentication for Secure Accessing of Medical Devices in the Smart Healthcare System”**, Springer Sponsored International Conference on IoT, Data Science and Security, organized by Department of Information Technology, PSG College of Technology on 05 - 07 January 2017.
11. R. Shantha Mary Joshitta, L. Arockiam, P.D. Sheba Kezia Malarchelvi, **“A Novel Authentication Scheme for IoT enabled Smart Healthcare System”**, International Conference on “Internet of Things”, conducted by Department of Computer Science and Engineering, APS College of Engineering held in 18-19, August 2016.
12. R. Shantha Mary Joshitta and L. Arockiam, **“A Predictive Model to Forecast and Pre-Treat Diabetes Mellitus using Clinical Big Data in Cloud”**, International Conference on Advance Computing in Jamal Mohamad College (Autonomous), December. 3 and 4, 2015.
13. R. Shantha Mary Joshitta, **“Ethical Issues that Arise among College Students by the usage of Social Networking Sites”**, in the proc of International Conference on Bounds of Ethics in a Globalized World-BoE2014 in Christ University, Bangalore, on 6th& 7th January 2014.
14. R. Shantha Mary Joshitta, R. Savithri, R. Princitta and M. Jesu Prakash, **“Equitable Standard School Education is successful in Smart Schools: a Case Study of Theni District”**, International Conference in Information and Communication Technology ICICT-2010, Thiagarajar School of Management, Madurai, 16,17th December, 2010.
15. G. Petricia Alpine Nirmala and R. Shantha Mary Joshitta, **“Smart Classroom is a Boon to improve Communication Skills in Rural India: A Case Study in Theni District”**, International Conference on “Language Development and Computing Methods”, in Karunya University, Coimbatore on December 2 – 3, 2010.

16. R. Shantha Mary Joshitta and Y. Yesu Thangam, “**Green technology: Green light for India’s growth**” in Proc of International Conference on Emerging Trends in Computer Science, Communication and Information Technology, Yeshwant Mahavidyalaya, Nanded, Maharashtra, India, “*Won a cash award for the best poster presentation in the conference*”.

Papers Presented in National Conferences

17. Jasmine B, Shantha Mary Joshitta R, Durga Devi R, “**Analyzing Retail Marketing in Theni district using Data Mining Approaches**”, National Conference on Internet of Things, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam, 22nd February, 2019.
18. R. Shantha Mary Joshitta, S.Shyni and Dr. L. Arockiam, “**A Methodology for Pre-Processing and Construction of Diabetic Mellitus Warehouse**”, Fifth National Conference on “Intelligent Computing” (FNCIC 2016), by KS Rangasamy College of Arts and Science (Autonomous), Tiruchengode, 16-17, September, 2016.
19. R. Shantha Mary Joshitta, S.Shyni and Dr. L. Arockiam, “**A Survey on Big Data Analytics for Healthcare**”, UGC Sponsored National Seminar on Emerging Trends in ICT Enabled Teaching Learning Process, Pavanatma College, Murockassery, Iduki, Kerala on 11-12, February, 2016.
20. R. Shantha Mary Joshitta, “**Open Source Softwares for Image Processing: An Analysis**”, on National Conference on “The Rising Of Bric Economics – A Scenario Thinking, at Dept. Of Management Studies, PET Engineering College, Vallioor, Tirunelveli on 24, November, 2010.
21. R. Shantha Mary Joshitta, “**E-Waste Minimization: A Key To Save The Himalayan Glaciers**”, in the proc of National Conference on Computer Science And Engineering – 2010 (NCCSE – 2010), organized by Department of Computer Science, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni.
22. R. Shantha Mary Joshitta and R. Ramya, “**Web people search via connection analysis**”, in the proc of National Conference on Computer

- Science And Engineering – 2010 (NCCSE – 2010), organized by Department of Computer Science, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni.
23. R. Shantha Mary Joshitta and R. Princitta, “**ICT Enabled Smart Schools: Need of the Hour**”, in the proc of the National Conference on Digital Vision 2020, in Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni.
 24. R. Shantha Mary Joshitta and R. Savithri, “**Open Source Software For Image Processing: A Comparative Study**”, National Conference on IT and its Applications, Salesian College, Silliguri, Darjeeling, West Bengal, 5,6th October, 2010.
 25. R. Shantha Mary Joshitta and Ms. J. Arul Mary Jenitha Rani, “**Tamil Web Blogs: A Boon for the freedom of Expression**” Proc of the National Conference on Human Rights, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, 9th & 10th December 2010.
 26. R. Shantha Mary Joshitta, M. Arul Mozhi, “**Basic Science Education and Research Re-Emerging Interest**” Proc of the National Conference on Quality and Relevance in Higher Education : New Challenges , Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, on 2-3rd March. 2009.
 27. R. Shantha Mary Joshitta, Mary Radhika, “**Role of NSS Volunteers in Rural Education through ICT**” in Proc of National Seminar Participative and Responsive Organizational Dynamics for Quality Improvement in Autonomous Colleges, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, December, 2007.
 28. R. Shantha Mary Joshitta, A. Leyo Rajesh, “**Conventional Computers to Quantum Computers – An Overview**” in Proc of National Seminar in Emerging trends in Physics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, August 2007.

Awards Received

1. **Semmozhi Sudar Kalainjar Award** by Pasumai Vasal Foundation, Dindigul Dt. On 03.06.2022
2. **Semmozhi Thentral Award** by Agni Kunju Association on 29.04.2022
3. **Global Eminent Researcher Award 2022 by VIJ Trust**, Reg. No. 959/2010/ BK4 on April 2022
4. **Women Researcher Award** by VDGGOOD Technology Factory on April, 2021.

Books Published

1. Co-Authored a book, entitled as “**UGC NET/ SET General Paper - Answers with Explanations**” by EMERALD PUBLISHERS, Chennai with ISBN 97881-1910-606-6
2. Co-authored “**Kuntril Oru Deepam**”, The Histroy of Jayaraj Annapackiam College for Women, published by Paavai Publications, Chennai, ISBN : 97881-7735-759-2.
3. Co-authored “**The Essential Guide to Book Designing**”, Textbook for DTP course, published by ACCA Press, Periyakulam, 2019
4. Co-authored “**Research in a Nutshell**”, Textbook for Research Methodology, Published by Institute for Communication and Technology, Trichy-3, 2016.
5. Co-authored “**A Textbook for MS Office 2007**”, Course material for the Computer Course for the Sisters of St. Anne, Palai Province, Published by ACCA Publications, 2014.
6. Co-authored “**Computer Basics for Beginners**”, Course material for the I UG Computer Science Students, published by ACCA Publications.
7. Authored “**Computers Ground Up – Edition II**” – for Computer Literacy – I year students of Jayaraj Annapackiam College for Women, Periyakulam, August, 2013.
8. Co-authored “**A Textbook for Desktop Publishing**”, Course material for the Certificate Course in Desktop Publishing, published by ACCA Publications.

9. Co-authored “**Get Your Feet Wet with CoralDRAW**” Course material for Certificate Course in Graphics designing, in October 2012, published by ACCA Publications.
10. Co-authored “**Craft Your Webpage**” – for Computer Literacy – I year students of Jayaraj Annapackiam College for Women, Periyakulam, December, 2008.
11. Authored “**Computers Ground Up**” – for Computer Literacy – I year students of Jayaraj Annapackiam College for Women, Periyakulam, August, 2008.
12. Co-authored “**Not ME; But You - Text Book for NSS Volunteers**” – for NSS Volunteers of Jayaraj Annapackiam College for Women, Periyakulam, February, 2008.
13. Co-authored “**Office Automation – I**”- for Computer Literacy – I & II year students of Mother Teresa Women’s University, June 2003.

Invited Lecture delivered

1. **Served as the Resource Person** for the Guest Lecture for the Department of Commerce with CA, on 31st July, 2023
2. **Served as the Subject Experts** for the Board of Studies of MCA & B.Sc. Computer Science of Fatima College (Autonomous), Madurai, on 3rd April, 2023
3. **Served as the Subject Experts** for the Board of Studies of Diploma in JAC Community College, Periyakulam, on 31st January, 2022
4. Served as **Chairperson** at the International Conference on Science and Technology – Computational Intelligence organized by Department of Computer Science, Kristu Jayanthi College (Autonomous), Bengaluru on 15 & 16th March, 2022
5. **Delivered a talk** on “**Use of Mass media in classroom Instruction**” to the students of St. Anne’s College of Education for Women on 10.02.2022.

6. Served as a **Resource Person** in Two Day Workshop on “**Interactive E-content Development**“ for the faculty members of JAC from 21.01.2022 – 22.01.2022
7. Served as a **Resource Person** on “**Basic Computer Skills and E-Content Preparation**” for the Sisters of the Congregation of the St. Anne’s Convent – Maria Province, Madurai from 14.05.2021 – 22.05.2021
8. Served as a **resource Person** on “**Cyber Security**” in the Virtual Online Certification Course on Cyber Psychology, Hosted by Kristu Jayanti College, Bangalore on 24/4/2021
9. **Delivered a talk** on “**Journal and Chapter Writing**” to the Research scholars of department of Computer Science, St. Joseph’s College on 30.12.2020.
10. **Delivered a talk** on “**Let us Celebrate our Flag**” to St. Anne’s College of Engineering and Technology on 07.12.2020.
11. **Chaired a debate** on “ngz;ikiag; Nghw;WNthk;” to the NSS volunteers in the International Women’s on 06.03.2020.
12. **Served as the Subject Experts** for the Board of Studies of Diploma in JAC Community College, Periyakulam, on 31st January, 2020
13. **Delivered a talk** on “ntw;wp ekNj. Kad;why; KbahjJ xd;Wkpy;iy” to the NSS volunteers in the NSS Special Camp on 22.11.2019.
14. **Resource person** in the **Crash Course on Cracking UGC-NET/JRF (Exclusive Focus on Paper I)** organized by the Minority Cell, JAC Academy, Periyakulam on 28 – 29th September, 2019.
15. Served as a Resource Person and delivered a **lecture on “Know Your Computers**”, In-service Training Programme for Science Teachers, on 19th February 2019, at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam.
16. Served as a Resource Person and delivered a **lecture on “Advance Big data Analytics using R**”, on 25th January 2018, at Cauvery College for Women, Trichy.

17. Served as a Resource Person and delivered a **lecture on “Big data Analytics”**, on 12th August 2017, at Adi Shankara Institute of Engineering Technology, Kalady, Kerala.
18. Served as a Resource Person and delivered a **lecture on “Big Data Analytics”**, on 7th July 2017, at Pavai College of Engineering, Erode.
19. Served as a Resource Person and delivered a **lecture on “Security in IoT”**, on 5th March, 2017, at St. Xavier’s College (Autonomous), Palayamkottai.
20. Served as a Resource Person and delivered a **lecture on “Issues and Challenges in ICT for Education”**, on 22nd September 2016, in St. Anne’s B.Ed College for Women, Periyakulam, Theni.
21. Served as a **Resource Person in two day State level workshop on “Data Analytics using R”** on 20th and 21st September 2016 in the State level workshop in Department of Computer Science, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni.
22. Served as a **Resource Person for the Seminar on “IoT Security”** on 17th September 2016 in the Post Graduate and Research Department of Computer Science, St Joseph’s College of Arts and Science (Autonomous),Cuddalore.
23. Delivered an **Invited Talk on “Policies on Women Welfare & Sustainable Development”** in the UGC sponsored National Conference on “Sustainable Development and the Role of Women in National Building” by Department of History, Jayaraj Annapackiam College For Women (Autonomous), Periyakulam, Theni, 11-12, Febuary 2015.
24. Delivered a **guest lecture on “Retrospect of Computer Organization”** in the Computer Science Association, in Nadar Saraswathi College, Theni, on 7.01.2015.
25. Delivered an **Invited Talk on “Mind Map”** in the association meeting of Mathematics department of JAC on 07.01.2013.

26. Delivered a **keynote address in JAC MATHS FEST** -Intercollegiate Meet organized by PG Department of Mathematics, Jayaraj Annapackiam Collge for Women, Periyakulam on 16th, December, 2013.
27. Delivered a **lecture on “thrp;Nghk; -tho;it tsKld; topelj;JNthk;; (Read; Lead our Life happily)”** for school students of Theni district organized by college library committee at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, Periyakulam on 16.11.2012.
28. Delivered a **lecture on “Today’s Youth – New Challenges”** in the Gender Cell of Sri Kaleswari College, Sivakasi on 25.08.2012.
29. Delivered a **lecture on “Role of Computer in Rural Women”**, Creation of Science awareness To self-help groups at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni on 04.02.2010.
30. Delivered a **lecture on “Computer: A gift of Innovation”**, Creation of Scientific awareness To school Students, at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni on 05.02.2010.
31. Delivered a **lecture on “Computers – The Basic – Ice Breaking”**, “Hands on Training in Information Technology - Summer Camp for Rural School Students”, at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, from 29.06.2009 - 03.07.2009.
32. Delivered a **lecture on “Internet – a Tool for Research”**, in Hands on Training in Information Technology - Summer Camp for Rural School Students”, at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, from 29.06.2009 - 03.07.2009.
33. Delivered a **lecture on “Basics of Computers”**, in In-service Training Programme for Secondary Grade Teachers, at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni, 6-10th January, 2009.

Memberships

1. **Reviewer** for the International Journal of Information Technology, Research and Applications, 2022

2. **Reviewer** for the Special Issue on Innovation in Comp., Engg. Sci. & Tech. 2022, **Manuscript ID: 22M-06-106**
3. **Subject Expert** in the Board of Studies of Fatima College (Autonomous), Madurai for the year 2021-2023.
4. **Reviewer** for the Special Issue for Advances in Science, Technology and Engineering Systems Journal, 2020
5. **Reviewer** for the Fourth National Conference on Computational Intelligence, Kristu Jayanti College (Autonomous), Bangalore
6. **Professional Membership** in the Institute for Engineering Research and Publication, 2020
7. **Reviewer** for the Seventh International Symposium on Women in Computing and Informatics (WCI'19), Trivendrum Kerala
8. **Reviewer** the Third National Conference on Computational Intelligence, Kristu Jayanti College (Autonomous), Bangalore
9. **Conference Reviewer**, Sixth International Symposium on Women in Computing and Informatics (WCI'18), IEEE, India
10. **Journal Reviewer** of Advances in Science, Technology and Engineering Systems Journal (ASTESJ), USA
11. **Life time Member** – Indian Society of Systems for Science and Engineering
12. **Lifetime Member**, ACCS, Membership Id - L0199A1523463
13. **Member**, International Association of Academicians (IAASSE), Membership UID: IAASSE0001042
14. **Member**, IEEE, Membership Number 93000333
15. **Member**, Indian Association of Research in Computer Science, New Delhi
16. **Member**, Technical Programme Committee, Sixth International Symposium on Women in Computing and Informatics (WCI-2018).
17. **Member**, Technical Programme Committee, Fourth International Symposium on Women in Computing and Informatics (WCI-2016).

18. **Member**, Technical Programme Committee, Third International Symposium on Women in Computing and Informatics (WCI-2015).
19. **Subject Expert**, Board of Studies, Department of IT & M, Arul Anathar College, Karumathur, from 2010 to 2012.
20. Served as a **Subject Expert** for the revision of syllabus for the Hr Sec Schools of Tamilnadu, held on 30.1.2013 in T.M.H.N.U Mat. Hr, Sec. School, Theni.
21. **Chairman**, Board of Studies of the Department of Computer Science, Jayaraj Annapackiam College for Women, Periyakulam, from June 2008 to 2014.
22. **Member**, Academic Council, Jayaraj Annapackiam College for Women, Periyakulam, from June 2008 to 2015, 2019 – till date.
23. **Member** of the Staff Council of Computer Science, Jayaraj Annapackiam College for Women, Periyakulam, from June 2001 to December 2003, June 2008 to 2014, 2019 – till date.

Other information

1. **Participated in the “Longest Virtual Debate in Tamil – 27 Hours”** on 13 different topics for 27 hours organized by Assist World Record Research Foundation and Qatar Ambal Tamil Sangam on 09.04.2021.
2. Scored II Rank in Matriculation Examinations at school level held at State Level.
3. Won Best Paper award for the Poster “**Green Technology : Green Light for India’s Growth**”, presented in the International Conference on Emerging Trends in Computer Science, Communication & Information Technology, Yeshwant Mahavidyalaya, Nanded, Maharashtra, India and won the Cash award of Rs 1500/-.

Additional charges held at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam:

4. Co-ordinator, Minority Coaching Cell, From June 2018 to till date.

5. Co-ordinator, JAC 50th Jubilee Committee.
6. Placement Director - From June 2007 to 2014.
7. Hostel Director - From June 2009 to May 2011.
8. NSS Programme Officer - From June 2007 to May 2009.

Conferences / Workshops / Seminars / Orientation Programs Attended (from 2018 onwards)

1. One Week **Faculty Development Programme on Patent & Innovative Teaching & Research Methodology** held from 2nd march to 6th March 2022 organized by Department of Computer Science, Bishop Heber College (Autonomous), Tiruchirapalli.
2. Three days Online International Faculty Development Programme on **"Emerging Trends in Data Science and its Applications"** organized by ANNA ADARSH COLLEGE FOR WOMEN, Chennai from 23rd February 2022 to 25th February 2022
3. Online Inter-Disciplinary Two-Week Refresher Course on **"Managing Online Classes & Co- creating MOOCS 11.0"** from 07 - 21 February 2022 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers And Teaching.
4. Online One-Week Faculty Development Programme on **"Blended Learning & Pedagogical Techniques"** from 22 – 29 January, organized by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with PG Department of Banking And Insurance Management, Ethiraj College For Women (Autonomous) Chennai, Tamil Nadu under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.
5. **Refresher Programme on AI-Diving in IoT and Computer Vision** held during 17.01.2022 – 21.01.2022 organized by JSPM's Rajarshi Shahu college of Engineering, Pune, Maharashtra.

6. Participated in the short-term training program on **“CAPTURE THE FLAG - Tools to handle Cyber Security Vulnerabilities”**, organized by Cybersecurity Centre of Excellence (CCoE), CMR Institute of Technology in association with The Cyber Diplomat and Reverse Engineering Infosec from 27th December to 31st December, 2021.
7. National Level Online Quiz on **“Statistical Tools Analysis”**, Post Graduate and Research Department of Commerce, Vivekananda College, Tiruvedakam West, Madurai-625234 on 30th June 2020.
8. **Quiz Tarrant** by St. Joseph’s College of Arts and Science for Women, Mookandapalli, Sipcot, Hosur, Krishnagiri District from 14th June 2020 to 17th June 2020
9. Webinar on **Exercise of Outcome Based Education in English Language and Literature** by Jayaraj Annapackiam College For Women Autonomous, 16.06.2020
10. **Essential Mathematics for Engineering projects and Research – An Insight into Methodologies** by SASTRA Deemed University, Tanjor on 12.06.2020
11. 5-day **career course on Data Science** by Department of Data Science, Loyola College, Chennai from 08-12, June 2020
12. International Level Webinar on **“Opportunities in new Normal”**, St. Xavier’s College (Autonomous), Palayamkottai on 25.06.2020
13. International Level Webinar on **“Digital Accessibility tech for Blind”** St. Xavier’s College (Autonomous), Palayamkottai on 26.06.2020
14. International Level Webinar on **“Data Visualization using Tableau”** St. Xavier’s College (Autonomous), Palayamkottai, on 27.06.2020
15. International Level Webinar on **“Mobile App Development using Ionic Framework”** by St. Xavier’s College (Autonomous), Palayamkottai on 28.06.2020
16. Five days Career Course on **“Data Science Fundamental”** by Dept of Information Technology, St. Joseph’s College of Engineering, 27.07.2020 – 31.07.2020

17. 10 day national level online multi disciplinary short term course on **“MOOCs, Creation of E-Content Development and OERs”** IQAC, Governments First Grade College, KR Puram, Bangalore from 5.07.2020 – 14.07.2020
18. International Webinar **on Web development in Python using Pycharm** Department of Computer Science & Engineering, St. Anne's College of Engineering and Technology on 2nd June 2020
19. International Webinar on **"VFX techniques in Video Editing"**, Department of Computer Science & Engineering, St. Anne's College of Engineering and Technology on 3rd, June 2020
20. International Webinar on **"Approaches On Online Teaching And Its Assessment Methods"**, Patrician College of Arts and Science, Chennai, Tamil Nadu on 4th July 2020.
21. **“Designing e-Content for English Language and Literature”**, Arts, Commerce and Science College, Lanja, Ratnagiri 29 June, 2020
22. Online Business quiz, PET Engineering College, Valliyur, 1st July 2020
23. International Webinar on **Cloud Security** by IQAC & School of Computing Science, Shasun Jain College for Women, Chennai on 25th May, 2020
24. International Faculty Development Programme **on Develop the ability to write research proposal** AMIT, Bengaluru on 24th April, 2020
25. Faculty Development Programme on **R**, organized by Department of Computer Science, Kaypeeyes College of Arts and Science, Kotagiri, The Nilgiris, May, 2020
26. Faculty Development Programme on **Python 3.4.3 Training** organized by Loyola College of Arts and Science, Mettala, May 2020
27. Faculty Development Programme on **Machine Learning for Beginners** organized by Department of ECE, Sphoorthy Engineering College, Hyderabad, May 2020
28. Webinar on **Use of Elsevier Tools in Research Workflow** organized by Department of Commerce, University of Madras, Chennai,, May 2020

29. International Webinar on **Futuristic Information and Communication Technologies** by CSI Jaipur Chapter in association with Innovation Society, India, May 2020
30. Webinar on **Machine learning Algorithms, Applications and Trends** organized by IQAC and School of Computational Science, CSI Student Chapter. SSS Shasun Jain College, Chennai-17
31. Two day International Workshop on **“Machine Learning Techniques”** organized by the PG department of Computer Science, Mother Teresa Women’s University, Madurai Centre from 3.12.2019 – 4.12.2019
32. Three day State level workshop on **“Android UI development”** organized by the PG department of Computer Science from 28.11.2019 – 30.11.2019
33. One day State Level Workshop on the topic of **“Art of Programming”** by PG department of Computer Science, JAC on 14th August, 2019
34. 3rd International Conference on **Cloud and Big Data Computing** (ICCBDC 2019), St Anne's College in University of Oxford, Oxford, United Kingdom, August 28-30, 2019.
35. International Workshop on **the Role of Computer Technology in Tamil Language Development** by Departments of Tamil, Computer Science & Commerce with Computer Applications on 5th March, 2019
36. National Conference on **Internet of Things**, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam, 22nd February, 2019.
37. National Workshop on **Python Programming** by the PG Department of Computer Science on 3rd & 4th December, 2018
38. International Conference on **Internet of Things**, Kristu Jayanti College (Autonomous), Bangalore, 5th December, 2018.
39. 3rd International Conference on **Internet of Things and Connected Technologies** (ICIoTCT), 2018, Malaviya National Institute of Technology (MNIT), Jaipur, March, 2018

40. International Conference **on Intelligent Computing and Control Systems** - ICCS 2018 – IEEE, Vaigai College of Engineering and Technology, Madurai, 14-15th June 2018.
41. International Conference on **Internet of Things and Connected Technologies** (ICIoTCT), 2018, Malaviya National Institute of Technology (MNIT), Jaipur

Personal Details

Name	:	R. Shantha Mary Joshitta
Gender	:	Female
DOB	:	01.06.1975
Marital Status	:	Single
Father's Name	:	S. Rajaretnam
Nationality	:	Indian
Language Competences	:	Tamil & English
Permanent Address	:	Joshitta R St Annes Convent, J.A. College for Women (Autonomous), Periyakulam, Theni Dt. – 625 601. Tamil Nadu, India