

<b>Name</b>	<b>Dr. A. VITHYA VIJAYALAKSHMI</b>
<b>Qualification</b>	MCA., M.Phil., Ph.D.,
<b>Designation</b>	Assistant Professor
<b>Year of Joining</b>	24.08.2020
<b>Specialization</b>	Cloud Computing, Internet of Things
<b>Email id</b>	<a href="mailto:vithyanbalagan@gmail.com">vithyanbalagan@gmail.com</a>



#### Seminars/Workshops/FDP/ Conferences

<b>Date</b>	<b>Paper Presented/ Participated</b>	<b>Title of the Paper</b>	<b>Organized By</b>	<b>Title of the Workshop/ Seminar/ FDP</b>	<b>Type</b>
27-02-2025	Participated	-	Department of Computer Applications, Don Bosco College of Arts and Science, Keela Eral, Thoothukudi	Seminar on “Human-Machine Teams:The Future of Work and Innovation”	State Level
03-02-2025 to 08-02-2025	Participated	-	Jain Deemed To Be University School of Computer Applications and IT	ATAL FDP on “Next-Gen Innovation: AI, Blockchain and AR/VR Metaverse for Digital Excellence”	National
19-12-2024	Presented	A Review on Cloud Computing Issues and Challenges	Department of Computer Science, Sri Sarada College for Women (Autonomous), Tirunelveli	International Conference on Current Challenges in Research with Computer Science and Technology (ICCCRCST-01)	International

28-11-2024	Participated	-	Library-Learning Resource Center & Reader's Club, St.Mary's College (Autonomous), Thoothukudi	Webinar on "Project Management System: VIDWAN/IRINS"	Regional
27-11-2024	Participated	-	Patrician Standards Club, Patrician College of Arts and Science, Chennai	PDP on "Upholding Ethical Standards in Education to Foster an Anti-Corruption Minset"	National
03.10.2024 to 11.10.2024	Participated	-	Patrician College of Arts & Science, Chennai	FDP on "Next-Generation Computing Research Insights and Innovations"	National
19.09.2024	Participated	-	Department of MHRM & Library Committee, St.Mary's College (Autonomous), Thoothukudi	Seminar on "Read Today to Lead the World Tomorrow"	National
20.08.2024	Participated	-	Marian Research Forum, St.Mary's College (Autonomous), Thoothukudi	Workshop on "Elevate your Research: Author and Editor Insights for Publishing in a Reputed Journal"	State Level
29.07.2024 to 02.08.2024	Participated	-	MEASI Institute of Information Technology, Chennai	FDP on "Exploring New Frontiers in Teaching Tools, AI and Data Analytics"	International
08.07.2024 to 12.07.2024	Participated	-	VELS Institute of Science, Technology & Advanced Studies, Chennai	FDP on "Creative Classroom Techniques"	International

01.07.2024 to 10.07.2024	Completed	-	UGC-MMTTC, Bharathidasan University, Tiruchirappalli	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training programme (MM-TTP) of UGC	National
04.07.2024	Completed	-	Skill Nation	Live Workshop on “ChatGPT & AI Tools”	National
03.06.2024 to 07.06.2024	Participated	-	Patrician College of Arts and Science, Chennai	FDP on “Fostering Ethical Research Practices in Academia”	International
12.10.2023	Participated	-	UGC – HRDC, Jai Narain Vyas University, Rajasthan	UGC- Webinar (online) NEP 2020: Artificial Intelligence & Machine Learning	National
20.09.2023	Participated	-	Marian Research Forum and Library Committee, St. Mary's College (Autonomous), Thoothukudi	Workshop on “Academic Writing: Authenticity and Ethical Imperatives”	Regional
07.09.2023	Participated	-	Library Committee & IIC, St. Mary's College (Autonomous), Thoothukudi	Workshop on “ChatGPT and other Artificial Intelligence (AI) Tools for Classroom Teaching and Research”	Regional
11.08.2023	Participated	-	Library Committee & IIC, St. Mary's College	Seminar on “AI Tools for Education with Special	National

			(Autonomous), Thoothukudi	Reference to ChatGPT, GPT4 & LAMMA	
09.11.2022	Participated	-	Department of Economics & IIC, St. Mary's College (Autonomous), Thoothukudi	Exhibitions of Idea's Start- ups	Regional
30.08.2022	Participated	-	MHRDC Digital Governance	University Grants Commission, Human Resource Development Centre, Bharathidasan University, Trichy	National
30.08.2022	Participated	-	IIC & Library Committee, St. Mary's College (Autonomous), Thoothukudi	Startup Company- It's Legal Issues and Ethics	Regional
07.05.2022	Participated	-	Marian Research Forum and Library Committee, St. Mary's College (Autonomous), Thoothukudi	Webinar on "Online Reference Management Tools for Manuscripts and Theses"	National
08.04.2022	Participated	-	Intellectual Property, India	IP Training program under National Intellectual Property Awareness Mission	National
25.03.2022	Participated	-	Department of Computer Science in collabration with UGC- HRDC, University of Madras	Webinar on "Artificial Intelligence"	International
21.03.2022 to	Participated	-	Department of Computer	FDP on "Recent	State Level

25.03.2022			Science, Sri.S.Ramasamy Naidu Memorial College, Sattur & ICT Academy	Advancements in Computer Science”	
19.03.2022	Participated	-	Department of Computer Science in collaboration with UGC-HRDC University of Madras	Webinar on “Machine Learning”	National
17.03.2022 to 19.03.2022	Participated	-	Department of Business Administration, Kamaraj College, Thoothukudi	Workshop on “Research Methodology and Data Analysis using Ms-Excel”	National
02.03.2022 to 06.03.2022	Participated	-	PG Department of Computer Science, Bishop Heber College (Autonomous), Trichy	FDP on “Patents and Innovative Teaching & Research Methodology”	State Level
01.03.2022	Participated	-	St. Mary's College (Autonomous), Thoothukudi	Webinar on “Importance of IP in Scientific Research”	International
26.02.2022	Participated	-	Human Cell, St.Francis College for Women, Hydrebada and Globethics.net, India	Conference on New Education policy: The Opportunity to integrate values in Curriculum Design	International
21.02.2022 to 26.02.2022	Participated	-	Department of IT, Easwari Engineering College, Chennai	FDP on “Machine Learning and Deep Learning”	State Level
11.02.2022 & 12.02.2022	Presented	A Technique to Secure Back-End Data-Sharing in Internet of Things	Sarah Tucker College, Tirunelveli	International Conference on Recent Trends in Computing and Information Technology	International

11.02.2022 & 12.02.2022	Presented	A Review on Cyber Risks in Internet of Things	Sarah Tucker College, Tirunelveli	International Conference on Recent Trends in Computing and Information Technology	International
01.02.2022 to 17.02.2022	Participated	-	MHRD-RUSA 2.0 “Biomaterials” project by the Department of Computer Science, University of Madras	Workshop on “Analytical tools for Image Processing”	National
11.01.2022	Participated	-	St. Joseph's College (Autonomous), Trichy	FDP on “AI in Business”	State Level
18.12.2021 to 24.12.2021	Participated	-	AICTE-ISTE	RC on “Innovative Approaches to Improve Startup and Entrepreneursh ip Development Skills of Young Faculty”	State Level
09.12.2021 & 10.12.2021	Presented	Challenges and Applications in Data Science	Annai Velankanni College of Engineering, Pottalkulam	International Conference on Emerging Trends in Materials, Computing and Communicatio n Technologies	International
09.12.2021 & 10.12.2021	Presented	A Review on Cloud Computing Issues and Challenges	Annai Velankanni College of Engineering, Pottalkulam	International Conference on Emerging Trends in Materials, Computing and Communicatio	International

				n Technologies	
04.12.2021	Presented	A Review on Security and Privacy Issues in Big Data	Vidyalankar School of Information Technology, Mumbai	International Multi-Disciplinary E-Conference on Transforming with Changing Dimension in Industry and Education	International
04.12.2021	Presented	A Study on Cyber Security Challenges and its Trends	Vidyalankar School of Information Technology, Mumbai	International Multi-Disciplinary E-Conference on Transforming with Changing Dimension in Industry and Education	International
12.11.2021 & 13.11.2021	Presented	A Review on Fog Computing Concepts Applications and Issues	S.S.T College of Arts and Commerce Ulhasnagar, Mumbai	International Conference on Recent Trends in Computer Science, Commerce & Management	International
12.11.2021	Participated	-	Department of Computer Science, St Mary's College (Autonomous), Thoothukudi	Webinar on "Serverless Architecture Using AWS Lambda"	International
11.11.2021	Presented	Python for Data Science – A Study	JP College of Engineering, Tenkasi	National Conference on Advanced Technology in Intelligent Computing Systems	National
30.10.2021	Participated	-	Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi	Webinar on "Cloud Hosting using AWS"	Online

15.07.2021 to 17.07.2021	Participated	-	Patrician College of Arts & Science, Chennai	Workshop on “MangoDB”	Online
26.05.2021 To 31.05.2021	Participated	-	Marian Star Centre, St. Mary's College, Thoothukudi	Short term course on “Graphics Design”	Online
20.05.2021 to 22.05.2021	Participated	-	Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik	FDP on “Industry 4.0”	Online
12.02.2021	Participated	-	Department of Library, St. Mary’s College (Autonomous), Thoothukudi	National Webinar on Academic Visibility in the Digital World	Online
30.10.2020 to 05.11.2020	Participated	-	Department of Data Science, St. Joseph’s College (Autonomous), Trichy	Webinar on “Regression Analysis in Data Science using Python”	Online
04.07.2020	Participated	-	Marian College Kuttikkanam (Autonomous)	Webinar on “Innovation and Intellectual Property Rights”	Online
04.07.2020	Participated	-	Patrician College of Arts & Science, Chennai	Webinar on “Approaches on Online Teaching and its Assessment Methods”	Online
27.06.2020	Participated	-	Francis Xavier Engineering College	Webinar on “Role of IoT in Smart World”	Online
25.06.2020	Participated	-	VELS Institute of Science & Technology, Chennai	Webinar on “Research Paper to Patent Filing – A road map”	
12.06.2020	Participated	-	Government College for	Webinar on “Deep	Online



			Women, Kumbakonam	Learning through Google Colab (Python)”	
09.06.2020	Participated	-	St. Mary’s College (Autonomous), Thoothukudi	Webinar on “A Compendium of Research Tools”	Online
28.05.2020 to 02.06.2020	Participated	-	Dr.M.G.R Educational and Research Institute, Chennai	FDP on “Emerging Technologies in Computer Science”	Online
27.05.2020	Participated	-	Presidency School of Management and Computer Sciences	Webinar on “Hands-on Session on Google Sites and Open Educational Resources”	Online
18.05.2020 to 23.05.2020	Participated	-	ICT Academy	FDP on “Data Science with Python”	Online
07.05.2020 to 13.05.2020	Participated	-	ICT Academy	FDP on “CAM using Fusion 360”	Online
04.05.2020 to 17.05.2020	Participated	-	MHRD & Sri Sai Ram Engineering College, Chennai	FDP on “Recent Trends in Information, Computing, Communicatio n and Teaching Methodology Competency”	Online
28.04.2020 to 30.04.2020	Participated	-	Kristu Jayanti College, Bangalore	FDP on “Current Trends in Software Engineering: Agile and DevOps”	Online
27.04.2020 to 02.05.2020	Participated	-	Jayaraj Annapackiam College, Theni	FDP on “Effective usage of ICT tools for E- Content Preparation”	Online

20.04.2020 to 26.04.2020	Participated	-	Sri Akilandeswari Women's College, Wandiwash	FDP on "Moodle Learning Management System"	Online
20.04.2020 to 06.05.2020	Participated	-	MHRD & Ramanujan College, University of Delhi	Two weeks FDP on "Managing Online Classes and Co- creating MOOCs"	Online
13.04.2020 to 16.04.2020	Participated	-	Bhagwan Mahavir College of Commerce and Management Studies, Gujarat	Webinar on "An Effective Research Paper Writing Skills"	Online
10.04.2020 & 11.04.2020	Participated	-	Pandit Deendayal Petroleum University	Workshop on "Intellectual Property Rights"	Online
25.09.2019	Participated	-	K.R. College of Arts and Science, Kovilpatti	Workshop on "Android Programming	State Level
15.10.2018	Participated	-	St. Joseph's College (Autonomous), Tiruchirappalli	Seminar on "Research Ethics	State Level
20.03.2018	Participated	-	Bharathidasan University, Trichy	International Seminar on "Research Concepts in Big Data Analytics and Internet of Things"	International
19.02.2018 to 25.02.2018	Participated	-	Bharathiar University, Coimbatore	One week national level hands-on workshop on "Internet of Things"	National
01.11.2017 to 05.11.2017	Participated	-	National Institute of Technology, Trichy	One week short term course on "Introduction	State Level

				to Cryptography	
22.09.2017 & 23.09.2017	Participated	-	St. Joseph's Institutive of Management Trichy	FDP on "Predictive Analytics"	State Level
31.08.2017 & 01.09.2017	Participated	-	St. Joseph's College (Autonomous) Trichy	Workshop on "Current Trends in Computer Science	State Level
28.08.2017 to 30.08.2017	Participated	-	National Institute of Technology, Trichy	National Workshop on "Cryptology"	National
19.07.2017 to 21.07.2017	Participated	-	Kamaraj College of Engineering & Technology, Madurai	Workshop on "Recent Security Trends and Tools"	State Level
12.06.2017 to 16.06.2017	Participated	-	K.Ramakrishnan College of Technology, Trichy	Faculty Development Programme on "Graph Theory and its Applications"	State Level
27.03.2017	Participated	-	K. Ramakrishnan College of Technology, Trichy	International Seminar on "A Research view on Current Trends in Computing"	International
24.02.2017 & 25.02.2017	Participated	-	Sri Ramakrishna Engineering College, Coimbatore	Two days' workshop on "High Dimensional Data Analytics"	State Level
17.02.2017	Participated	-	Rathinam College of Arts & Science, Coimbatore	National Level Workshop on "MATLAB"	National
02.02.2017 to 04.02.2017	Participated	-	St. Joseph's College, Trichy	World Congress on "Computing and Communicatio n Technologies"	International

30.01.2017	Participated	-	Srimad Andavan Arts & Science College, Trichy	State Level Seminar on “Innovative Research in Computer Science”	State Level
27.11.2016	Participated	-	Trichy Learning Center	Seminar on AWS Cloud Technology Tips and Tricks for certification	-
14.10.2016 & 15.10.2016	Participated	-	Amrita University, Coimbatore	IoT Challenge 2016 event conducted by i3indya Technologies in association with Techfest 2016	State Level
22.09.2016 & 23.09.2016	Participated	-	K.S.Rangasamy College of Technology, Tiruchencode	ICMR Sponsored National Seminar on “Smart Healthcare Monitoring System using IoT”	National
22.08.2016 & 23.08.2016	Participated	-	K.Ramakrishnan College of Technology, Tiruchirapalli	Two days Faculty Development Programme on “Grid & Cloud Computing	State Level
28.07.2016 to 30.07.2016	Participated	-	PSG College of Technology, Coimbatore	TEQIP-II Sponsored Faculty Development Programme on “Internet of Things (IoT) For Emerging Engineering Applications	State level
28.03.2016 to 06.04.2016	Participated	-	NIT, Warangal	Ten days Faculty Development	State level

				Programme on “Security and Privacy	
15.09.2015 to 17.09.2015	Participated	-	MES College Nedumkandam, Idukki, Kerala	UGC Sponsored National Seminar on “Cloud Computing	National
19.12.2018	Presented	A Secured Architecture for IoT Healthcare System	Vaigai College of Engineering, Madurai	International Conference on Computer Networks, Big Data	International
13.12.2018 & 14.12.2018	Presented	Hybrid Security Techniques to Protect Sensitive Data in E- Healthcare Systems	Francis Xavier Engineering College, Tirunelveli	International Conference on Smart Systems and Inventive Technology	International
24.01.2018	Presented	NAF Based Scalar Multiplicatio n Technique for increasing speed of ECC	St. Francis De Sales College, Bangalore	International Conference on Advances in Computer Science and Technology	International
28.03.2017 & 29.03.2017	Presented	A Secured Public Key Exchange Technique for Elliptic Curve Cryptography	K. Ramakrishnan College of Technology, Trichy	International Conference on Newer Engineering Concepts and Technology	International
09.12.2016 & 10.12.2016	Presented	A Framework for Ensuring Data Confidentialit y in Smart Home Systems	Arunachala College of Engineering for Women, Kanyakumari	International Conference on Emerging Trends in Engineering and Technology	International
07.10.2016	Presented	A Technique to Enhance Data Security in Bluetooth Low Energy for Smart	Thanthai Hans Roever College, Perambalur	National Conference on Role and Applications of Statistics in Multi-	National

		Health Environment		disciplinary research	
16.09.2016 & 17.09.2016	Presented	A Unified Model for Cloud Data Confidentiality	K.S.Rangasamy College of Arts and Science, Tiruchengode	National Conference on Intelligent Computing	National
13.02.2013 & 14.02.2013	Presented	Energy Conservation Technologies	Bon Secours College for Women, Thanjavur	International Conference on Next Generation of Mobile Services, Applications and Technologies	International
19.12.2012 & 20.12.2012	Presented	Green Computing	Ayyan Thiruvalluvar College of Arts and Science, Sellappampalayam	International Conference on Enjoyable Programming & IT Trends	International

### Papers Published

Paper Title	Author(s)	Journal	Year	Volume	Issue	Page No.
A Review on Cloud Computing Issues and Challenges	G. Akila, G. Sahaya Naveetha, J. Praveena, Dr. A. Vithya Vijayalakshmi	International Journal of Scientific Research in Science, Engineering and Technology	2021	Volume. 9	Issue. 8	446-451
Challenges and Applications in Data Science - A Study	J. Piramanayaki, K. Annie Apsara, K. Maheswari, Dr. A. Vithya Vijayalakshmi	International Journal of Scientific Research in Science, Engineering and Technology	2021	Volume. 9	Issue. 8	743-747
Systematic Maintenance of Block Chain Enabled	A. Vithya Vijayalakshmi	Design Engineering (SCOPUS)	2021	-	Issue. 7	192-203

Intelligent Healthcare Monitoring Scheme using Internet of Things						
ARO_VID: A Unified Framework for Data Security in Internet of Things	A. Vithya Vijayalakshmi and Dr. L. Arockiam	Journal of Emerging Technologies and Innovative Research	2018	Volume. 5	Issue. 7	685-690
ARO_EDGE: A Technique to Ensure Data Security in Internet of Things (IoT)	A. Vithya Vijayalakshmi and Dr. L. Arockiam	Asian Journal of Computer Science and Technology	2018	Volume. 7	No. 2	52-56
Non-Adjacent Form Based Scalar Multiplication Technique for Increasing Speed of ECC	A. Vithya Vijayalakshmi and Dr. L. Arockiam	International Journal of Engineering and Techniques	2018	-	-	1-6
A Unified Model for Cloud Data Confidentiality	A. Vithya Vijayalakshmi, N. Veeraragavan and Dr. L. Arockiam	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	2017	Volume. 2	Issue. 6	256-261
Research Issues on Data Security in Cloud Computing: A Survey	W. Catherine Crasy, A. Vithya Vijayalakshmi and Dr. L. Arockiam	International Journal of Scientific Research in Computer Science Applications and Management Studies	2017	Volume. 6	Issue. 5	1-6
Enhancing the Security of IoT Data using	A. Vithya Vijayalakshmi and Dr. L.	International Journal of Advanced	2017	Volume. 8	No. 9	841-845

Multilevel Encryption	Arockiam	Research in Computer Science				
A Secured Public key Exchange Technique for Elliptic Curve Cryptography	A. Vithya Vijayalakshmi, A. Dalvin Vinoth Kumar and Dr. L. Arockiam	International Journal of Engineering Research in Computer Science and Engineering	2017	Volume. 4	Issue. 9	72-77
A Study on Security Issues and Challenges on IoT	A. Vithya Vijayalakshmi and Dr. L. Arockiam	International Journal of Engineering Sciences & Management Research	2016	Volume. 3	Issue. 11	34 – 43
A Study on Cloud Computing Data Security Issues	A. Vithya Vijayalakshmi, N. Veeraragavan and Dr. L. Arockiam	MISBAH Niche of Knowledge	2015	Volume.15	Issue. 15	115-123

### Books Published

Date	Book Title	Author(s)	ISBN Code	Editions	Publisher
2022	A Technique to Secure Back-End Data-Sharing in Internet of Things	Dr. A. Vithya Vijayalakshmi	979-8-88525-143-3	Proceedings of International Conference on Recent Trends in Computing and Information Technology	Conference Proceedings
2022	A Review on Cyber Risks in Internet of Things	S. Santhiya L. Brisilla, J. Amirtha, Dr. A. Vithya Vijayalakshmi	979-8-88525-143-3	Proceedings of International Conference on Recent Trends in Computing and Information Technology	Conference Proceedings
2021	A Study of Cyber	M.	978-93-5578-	Proceedings	Conference



	Security Challenges and its Trends	Karimunisha, P. Nancy, N. Iswarya Lakshmi, Dr. A. Vithya Vijayalakshmi	200-7	of International Multi-Disciplinary E-Conference on Transforming with Changing Dimension in Industry and Education	e Proceedings
2021	A Review on Fog Computing Concepts, Applications And Issues	R. Ramya, M. Lisanthini, G. Mathi, H. Sathya Bala, Dr. A. Vithya Vijayalakshmi	978-81-953432-7-0	Proceedings of International Conference on Recent Trends in Computer Science, Commerce & Management	Conference Proceedings
2020	A Secured Architecture for IoT Healthcare System (Chapter)	A. Vithya Vijayalakshmi and Dr. L. Arockiam	DOI:10.1007/978-3-030-24643-3_106	Lecture Notes on Data Engineering and Communications Technologies, Volume 31, 2020, pp. 904–911	Springer
2018	Hybrid Security Techniques to Protect Sensitive Data in E-Healthcare Systems (Chapter)	A. Vithya Vijayalakshmi and Dr. L. Arockiam	978-1-5386-5872-7	-	IEEE Xplore
2017	A Technique to Enhance Data Security in Bluetooth Low Energy for Smart Health Environment – Chapter 19	A. Vithya Vijayalakshmi, A. Dalvin Vinoth Kumar and Dr. L. Arockiam	DOI://doi.org/10.5281/zenodo.263014	Statistical Approaches on Multidisciplinary Research, First Edition, 2017	Surragh Publishers

### As Resource Person

Date	Name of the Institution	Invited As	Topic/Event
19.12.2024	Sri Sarada College for Women (Autonomous), Tirunelveli	Keynote address on International Conference on Current Challenges in Research with Computer Science and Technology (ICCCRCST-01)	The Future of CS Research Challenges and Trends
13.09.2024	Sri Sarada College for Women (Autonomous), Tirunelveli	Resource Person for Association Meeting	The Role of Deep Learning in Modern AI
10.03.2021	Sri Sarada College for Women (Autonomous), Tirunelveli	Resource Person for Association Meeting	Internet of Things
07.10.2017	K. Ramakrishnan College of Technology	Resource Person for the one day Workshop	Research Methodology and Project Writing
04.03.2017	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni	Resource Person in one day State level Workshop	Wonders of IoT
01.08.2013 to 30.10.2013	St. Mary's College (Autonomous), Thoothukudi	Tutor for Career Oriented Programme	LaTeX

### Patent

Title of the Patent	Published Data
Biometrically Activated Self Defense Device for Women	01.11.2019

### **Others**

- Attended 30 Days Master Class on “Artificial Intelligence” from 21.03.2022 to 20.04.2022 organized by Pantech eLearning Pvt. Ltd. (online mode)

### **Responsibilities Held:**

- Member of Examination Committee (2020-2024)
- Member of Database Committee (2020-)
- Member of Language Lab (2021-)
- Member of Institution’s Innovation Council (2022-)
- Member of Research Advisory Committee (2024-)