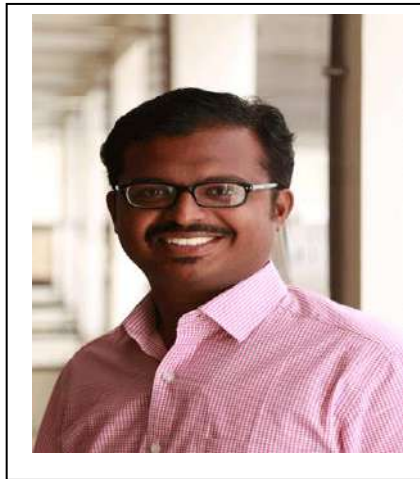


## **Dr.P.THIYAGARAJAN DETAILED RESUME**



**Name: Dr.P.THIYAGARAJAN**

**Designation:** Assistant Professor, Department of Computer Science, Central University of Tamil Nadu, Thiruvarur - 610 005

**Contact number:** 0 9488584015 / 0 9841234510

**Email-id:** [thiyagucutn@gmail.com](mailto:thiyagucutn@gmail.com)

**Total Citations:**

**Google Scholar - Citations: 265 H-index: 9**

**Scopus - Citations : 143 H-index: 5**

**Academic Identity:**

- Vidwan ID: <https://vidwan.inflibnet.ac.in/profile/48495>
- ORCID: <https://orcid.org/0000-0001-6003-178X>
- Web of Science: ABE-5011-2021
- SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=55398414400>
- Google Scholar ID: <https://scholar.google.co.in/citations?user=ZtCdtv4AAAAJ&hl=en>

**Research areas:**

Machine Learning, IoT, Steganography, Cryptography, Big Data Analytics, Security aspects in smart cities

**Research Guidance:****Ph.D. Completed: 1; Ph.D. Thesis Submitted: 1, Ph.D. Ongoing: 3, M.Phil. Completed: 1****Educational details:**

| S.No. | Examination Passed      | Name of the University/Board  | Year of Passing | Subject/ Specialization          |
|-------|-------------------------|---|-----------------|----------------------------------|
| 1.    | Integrated Masters (MS) | College of Engineering, Guindy, Anna University (Main Campus), Chennai – 25 | 2007            | Computer Science                 |
| 2.    | Ph.D.                   | Pondicherry Central University  | 2014            | Computer Science and Engineering |
| 3.    | Post-Doctorate          | Department of Atomic Energy   | 2015            | Computer Science and Engineering |

**Employment details:**

| S.No. | Name of the Employer  | Designation  | Period of Employment |               |
|-------|---|--|----------------------|---------------|
|       |   |  | From                 | To            |
| 1.    | Central University of Tamil Nadu, Thiruvarur  | Assistant Professor                                | February 2024        | Till Date     |
| 2.    | Rajiv Gandhi National Institute of Youth Development (An Institute of National Importance), Ministry of Youth Affairs and Sports, Sriperumbudur | Associate Professor (by availing on-lie from CUTN) | June 2022            | February 2024 |
| 3.    | Central University of Tamil Nadu, Thiruvarur  | Assistant Professor                                | June 2016            | June 2022     |
| 4.    | Mahindra Ecole Centrale, Hyderabad  | Assistant Professor                                | December 2014        | June 2016     |
| 5.    | Department of Atomic Energy, IGCAR, Kalpakkam   | Post-Doctorate Fellow                              | September 2013       | December 2014 |
| 6.    | Smart and Secure Environment Research Lab, Pondicherry Central University, Puducherry   | Research Associate                                 | July 2009            | July 2012     |
| 7.    | Aricent Technologies, Chennai   | Software Engineer                                  | February 2008        | May 2009      |
| 8.    | Ezone Techno Solutions  | Programmer & Trainer                               | May 2007             | February 2008 |

### Awards and recognitions:

- Awarded **Young Scientist Fellow** by Tamil Nadu State Council for Science and Technology in the year 2020
- Awarded **Post-Doctoral Fellowship** by Department of Atomic Energy (**DAE**), Indira Gandhi Centre for Atomic Research (**IGCAR**), Kalpakkam\
- **National Science Centre POLAND**, reviewer for research proposal in the area of Information Security and Machine Learning.
- **Best Technical Award** in Aricent Technologies (An MNC)
- **Appreciation letter** from Smart and Secure Environment Project Investigators, Pondicherry Central University for the work done in the project by me as Research Associate
- Secured **First Class with Distinction** in Integrated Masters (**MS in Computer Science**) from prestigious College of Engineering, Guindy, Anna University (Main Campus), Chennai.
- Presented the paper titled “Qualitative analysis of Dynamic Pattern Based Image Steganography Algorithm in providing E-Banking Security” **IDRBT First Doctoral Colloquium (An Research Institute established by Reserve Bank of India)**
- Reviewers for prestigious Journals such as **IEEE Signal Processing Letters, Computer and Electrical Engineering – Elsevier, 3D Research – Springer**, etc

### Research Projects:

| S.No | Funding Agency   | Project Title  | Amount in lakhs | Status    |
|------|------------------|--|-----------------|-----------|
| 1..  | PMMMNMTH<br>MHRD | Construction and implementation of e-learning in data analytics using python     | 1.1 Lakhs       | Completed |
| 2.   | IUCTE            | A Study of ICT Integration in Teaching and Learning in Higher Education in India | 6.6 Lakhs       | Completed |
| 3.   | ICSSR            | Development and Implementation of e-learning in Discrete Mathematics             | 2 Lakhs         | Completed |
| 4.   | MeitY, GoI       | Visvesvaraya PhD Scheme (As Nodal Officer in RGNIYD)                             | 1 Crore         | Ongoing   |

### **Funded workshop / FDP Conducted:**

| <b>S.No.</b> | <b>Title of the Workshop / FDP</b>  | <b>Funding Agency</b> | <b>Amount</b> |
|--------------|---|-----------------------|---------------|
| 1.           | Digitalization of resources using open source software : DSpace - FDP - 2017 (5 Days) | UGC                   | Rs.75,000/-   |
| 2.           | Artificial Intelligence in Teaching and Learning - FDP - 2021 (5 Days)                | AICTE                 | Rs.93,000/-   |
| 3.           | Research Methodology course - 2022 (10 days)  | ICSSR                 | Rs.97,000/-   |
| 4.           | National Conference on Youth Advanced Computational Convergence (YACC-2023)           | ICSSR                 | Rs.3,70,000/- |

### **MOOC Course Developed:**

Designed and Developed MOOC Course on the topic *Internet of Things (IoT) – Current Developments* for Bharathidasan University Entrepreneurship, Innovation and Career Hub (BECH-RUSA 2.0), Bharathidasan University in May 2020.

### **Patent:**

Dr.P.Thiyagarajan et.al., Coronavirus protected room: Disinfecting room air using IoT and Machine Learning Programming (Published Date : June 2020)

### **Books Published:**

**P.Thiyagarajan et.al** authored a book on “An E-Learning Approach to Teach Discrete Mathematics”, Studium Press, 2019, Total pages: 218, ISBN : 9789385046476

**P.Thiyagarajan** authored a book on “Strengthening security in Spatial Domain Image Steganography” published by Lambert Academic Publishing, ISBN : 978-613-5-82863-4

**P.Thiyagarajan** authored a self-instructional material (book) on “Mobile Application Development” published by Directorate of Distance Education, Alagappa University, Karaikudi in 2021.

**P.Thiyagarajan** et.al edited a book titled “ Proceedings of the ICSSR Sponsored National Conference on Youth Advanced Computational Convergence (YACC) 2023” by CBA Publishers, India ISBN 978-93-80430-83-6

## **Publications: (Journals / Conferences / Workshops)**

### **2024:**

**Thiyagarajan P** et.al, Challenges and Opportunities of Deep fake across domains in Proceedings of the National Seminar on Reimagining Libraries : Innovations in Technology and Trends, Ess Ess Publications, ISBN: 978-93-92594-95-3, 2024

Goru, Kalivarapasanna Babu, **Paramasivan Thiyagarajan** and Rajiakodi, Saranya. A blockchain based scheme for distributed storage of nuclear power plant images" *Kerntechnik*, vol. 89, no. 1, 2024, pp. 67-76. <https://doi.org/10.1515/kern-2023-0088>

Gokul Kottilapurath Surendran, **Thiyagarajan P**, Natural Inspired Learning Path Recommendation System for Students in E-learning Platforms, *Journal of Engineering Education Transformations* , Volume 37, No. 3 , January 2024 , ISSN 2349-2473, eISSN 2394-1707 DOI: [10.16920/jeet/2024/v37i3/24014](https://doi.org/10.16920/jeet/2024/v37i3/24014)

Muhammed Niyas, K.P., **Thiyagarajan, P**, Improving Dementia Prediction Using Ensemble Majority Voting Classifier. *Annals of Data. Science*, ISSN:2198-5804. (2024). <https://doi.org/10.1007/s40745-024-00550-3>

Muhammed Niyas, K.P., **Thiyagarajan, P**. Improving Alzheimer's classification using a modified Borda count voting method on dynamic ensemble classifiers. *Knowledge and Information Systems*, Volume 66, pp.4755–4787 (2024). <https://doi.org/10.1007/s10115-024-02106-6>

### **2023:**

Muhammed Niyas K. P., **Thiyagarajan P**, A Systematic Review on Early Prediction of Mild Cognitive Impairment to Alzheimers Using Machine Learning Algorithms, *International Journal of Intelligent Networks*, (DOI: <https://doi.org/10.1016/j.ijin.2023.03.004>), Elsevier, 2023

Kalivarapasanna Babu G., **Thiyagarajan P.**, Broadening of horizons: A review of blockchains' influence on EHRs development trend, *International Journal of Electronic Healthcare* (<https://doi.org/10.1504/IJEH.2023.130514>)

P. K. Laboso, A. Martin and **P. Thiyagarajan**, "Blockchain Technologies in Data Science: Challenges and Benefits," *2023 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)*, Erode, India, 2023, pp. 1323-1328, doi: [10.1109/ICSCDS56580.2023.10104674](https://doi.org/10.1109/ICSCDS56580.2023.10104674)

Dhruti Ranjan Mohanty, **Thiyagarajan P**, Implementation and Testing of Deep Link in an Android Application, *Journal of Computing and Intelligent Systems*, 2023, pp. 329-336, ISSN: 2456-9496

Kalivarapasanna Babu G., **Thiyagarajan P.**, Saranya R., Proactive public healthcare solution based on blockchain for Covid-19, *International Conference on Advanced Communications and Machine Intelligence-MICA 2022* (Presented December 2022) [https://doi.org/10.1007/978-981-99-2768-5\\_12](https://doi.org/10.1007/978-981-99-2768-5_12))

**Thiyagarajan P** et.al, DDOS Attack Simulation and Machine Learning Model for Intrusion Detection in Proceedings of the National Conference on Youth Advanced Computational Convergence (YACC - 2023), ISBN: 978-93-80430-83-6

**2022:**

Patrick Kipkorir Laboso and **Thiyagarajan P.**, Digital Library Management System Using Smart Contract Based on Block-Chain Technology, Digital Librarianship and social media Edited Book, ISBN : 978-93-91854-04-1

**2021:**

Muhammed Niyas K. P., **Thiyagarajan P.**, Alzheimer's classification using dynamic ensemble of classifiers selection algorithms: A performance analysis, Biomedical Signal Processing and Control, Volume 68, pp.1-18, 2021, 102729, ISSN 1746-8094 (<https://doi.org/10.1016/j.bspc.2021.102729>)

Muhammed Niyas K P, P.Thiyagarajan, Feature Selection Using Efficient Fusion of Fisher Score and Greedy Searching for Alzheimer's Classification, Journal of King Saud University - Computer and Information Sciences, 2021, ISSN: 1319-1578 (<https://doi.org/10.1016/j.jksuci.2020.12.009>)

Muhammed Niyas K. P., **Thiyagarajan P.**, *Fusion of feature ranking and efficient searching for Alzheimer's Classification*, Conference on Intelligent Computing and Communications Network, CICNN, 2021, 26-27 February 2021, BIT Campus, Tiruchirappalli, Tamil Nadu.

Kalivarapasanna Babu, **Thiyagarajan P.**, *The Current state of Prescriptions and potential enhancements using Blockchain* on 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 06<sup>th</sup> – 08<sup>th</sup> July, 2021, IIT Kharagpur (<https://doi.org/10.1109/ICCCNT51525.2021.9579744>)

**2020:**

Gokul K S, **Thiyagarajan P** presented a paper titled "*Natural inspired recommendation system based on student performance*" in International E-Conference on Innovations in Information Technology on 20.08.2020, Bharathiar University, Coimbatore

**P.Thiyagarajan**, A Review on Cyber Security Mechanisms using Machine and Deep Learning Algorithms, IGI Global, Advances in Information Security, Privacy, and Ethics, pp.23-41, January 2020 (DOI: 10.4018/978-1-5225-9611-0.ch002)

**P.Thiyagarajan** et.al. A Survey of ICT Integration in Teaching and Learning in South Indian Central Universities, National Conference on Innovation in Teaching and Learning Trends in 21st Century, The ICFAI University, Tripura, February 18-20, 2020

**P.Thiyagarajan** et.al., A Study of Effectiveness of ICT in Teaching and Learning process in South Indian Universities, International Conference on 21st Century Education : Techno-Pedagogical Trends and Innovations, Bharathidasan University, 27 - 28 February 2020

## 2019:

Nithinila K, **P.Thiyagarajan**, “A Study and implementation on Mathematical Morphology Method : Brain MRI Skull Stripping”, National Conference on Recent Trends In Computer Science And Technology conducted by Swami Dayananda College-Manjakudi on 28th and 29th March, 2019

Arjunan S, **P.Thiyagarajan**, “Comparison of various algorithms on edge detection”, National Conference on Recent Trends In Computer Science And Technology conducted by Swami Dayananda College-Manjakudi on 28th and 29th March, 2019

Sreya S, **P.Thiyagarajan**, “A Study on Brain Grey and White matter segmentation algorithm”, National Conference on Recent Trends In Computer Science And Technology conducted by Swami Dayananda College-Manjakudi on 28th and 29th March, 2019

Sajeena S, **P.Thiyagarajan**, “Image Registration Algorithms : A Detailed Study”, National Conference on Recent Trends In Computer Science And Technology conducted by Swami Dayananda College-Manjakudi on 28th and 29th March, 2019

Muhammed Niyas K.P, **Thiyagarajan P**, “Comparison of Machine Learning Models for Detection of Dementia”, International Conference on Intelligent Computing and Signal Processing, Central University of Kerala, ISBN 978-81-8487-691-8, March 2019

## 2018:

**P.Thiyagarajan**, “Recent Big Cyber Threats Break down : An Overview”, 2018 in Alagappa University, Karaikudi on 20th March, 2018

## 2017

R.B.Krishnan, P.K.Thandra,S.A.V.Satya Murthy, **P.Thiyagarajan**, Font Attributes based Text Steganographic algorithm (FATS) for communicating images : A nuclear power plant perspective, KERNTECHNIK Journal of Nuclear Engineering, Vol.82, Issue No: 1, pp.98-111, 2017 (<https://doi.org/10.3139/124.110651>)

**P.Thiyagarajan**, “Mobile App can prevent Dengue !” in India International Science Festival 2017 held in Chennai during 13th to 16th October 2017 (Poster Presentation)

## 2016

G. Shanmugasundaram, **P.Thiyagarajan**, S.Tharani, “A multilevel clustering using multi-hop and multi-head in VANET”, International Conference on Data Engineering and Communication Technology – ICDECT 2016, March 10<sup>th</sup> - 11<sup>th</sup> 2016 ([https://DOI:10.1007/978-981-10-1678-3\\_16](https://DOI:10.1007/978-981-10-1678-3_16))

G.Shanmugasundaram, **P.Thiyagarajan**, A.Janaki, “A Survey of Cloud Based Healthcare Monitoring System for Hospital Management”, International Conference on Data Engineering and Communication Technology – ICDECT 2016, March 10<sup>th</sup> - 11<sup>th</sup> 2016 (DOI: [10.1007/978-981-10-1675-2\\_54](https://DOI:10.1007/978-981-10-1675-2_54))

## 2015

**Thiyagarajan P**, Prasanth Kumar Thandra, J.Rajan, S.A.V.Satyamurthy and Aghila G, “Shamir Secret Sharing Scheme with Dynamic Access Structure (SSSDAS): case study on nuclear power plant”, KERNTECHNIK, Journal of Nuclear Engineering, Vol.80, no.2, pp.150-160, April 2015 (SCI Journal, Impact Factor : 0.257) (<https://doi.org/10.3139/124.110489>)

G.Shanmugasundaram, **P.Thiyagarajan**, S.Pavithra, “A Novel DNA Encryption System Using Cellular Automata”, International Journal of Security, Privacy and Trust Management (IJSPTM), Vol 4, No3/4, November 2015, pp.39-49, ISSN: 2319-4103 (<https://DOIhttps://DOI:10.5121/ijsptm.2015.4404:10.5121/ijsptm.2015.4404>)

## 2013

**Thiyagarajan P**, Aghila G, “Reversible Dynamic Secure Steganography for Medical Image using Graph Coloring”, Elsevier Health Policy and Technology, Vol.2, no.3, September 2013, pp.151-161, ISSN: 2211-8837 (SCI Journal, Impact Factor : 1.205) (<https://doi.org/10.1016/j.hlpt.2013.05.005>)

**Thiyagarajan P**, Natarajan V, Aghila G, Prasanna Venkatesan V, Anitha R, “Pattern based 3D Image Steganography”, Springer 3D Research Journal, Vol. 04, no.1, March 2013, pp.1-8, ISSN: 2092-6731 (SCImago Journal Impact Factor : 0.89) ([https://doi.org/10.1007/3DRes.01\(2013\)1](https://doi.org/10.1007/3DRes.01(2013)1))

## 2012

**Thiyagarajan P**, Aghila G, Prasanna Venkatesan V, “Pixastic: Steganography based Anti-Phishing Browser Plug-in”, Journal of Internet Banking and Commerce, Vol. 17, no. 1, April 2012, pp.1-19, ISSN: 1204-5357 (SCImago Journal, Impact Factor : 2.70) (<https://doi.org/10.48550/arXiv.1206.2445>)

Chandirasekaran D, Aghila G, **Thiyagarajan P**, A Trustable key exchange protocol for mobile oriented VoIP devices via ECDH and Synchronous key update mechanism, International Conference on Modelling, Optimisation and Computing, Procedia Engineering 38 (2012) (<https://doi.org/10.1016/j.proeng.2012.06.273>)

## 2011

**Thiyagarajan P**, Aghila G, Prasanna Venkatesan V, “Steganalysis using Color Model Conversion”, Signal and Image Processing: An International Journal (SIPIJ), Volume 2, No 4 December 2011, pp.201-211, ISSN 0976-710x (Signal & Image Processing : An International Journal (SIPIJ) Vol.2, No.4, December 2011 (DOI : 10.5121/sipij.2011.2417)

**Thiyagarajan P**, Aghila G, Prasanna Venkatesan V, “Dynamic Pattern Based Image Steganography”, Journal of Computing , Volume 3, Issue 2 February 2011, pp.1-9, ISSN 2151-9617 (<https://doi.org/10.48550/arXiv.1206.2583>)

**Thiyagarajan P**, Aghila G, Prasanna Venkatesan V, “Qualitative Analysis of Dynamic Pattern based Image Steganography in providing E-Banking Security”, First

**Thiyagarajan P**, Aghila G, Prasanna Venkatesan V, "Stego-Image Generator (SIG) - Building Steganography Image Database", International Conference on Digital Image Processing and Pattern Recognition, DPPR 2011, Proceedings published in Springer (LNCS) in Communications in Computer and Information Science (CCIS) Series, September 2011, ISSN: 1865:0929 (DOI: [10.1007/978-3-642-24055-3\\_27](https://doi.org/10.1007/978-3-642-24055-3_27))

**Thiyagarajan P**, Aghila G, Prasanna Venkatesan V, "Stepping up Internet Banking Security using Dynamic Pattern Based Image Steganography", International Conference on Advances in Computing and Communications, ACC 2011, Proceedings published in Springer (LNCS) in Communications in Computer and Information Science Series (CCIS), June 2011, ISSN: 1865:0929 (DOI: [10.1007/978-3-642-22726-4\\_12](https://doi.org/10.1007/978-3-642-22726-4_12))

**Thiyagarajan P**, Aghila G, Prasanna Venkatesan V, "Steganalysis Using Color Model – A Method for Digital Forensics Examiners to Identify Stego-images", pp.157-161, January 2011, International Conference of the South Asian Society of Criminology and Victimology, ISBN: 978-81-906687-4-3 (<https://arxiv.org/abs/1206.2914>)

**Thiyagarajan P**, Presented a paper on "Steganography using Elliptical Curve Cryptography", 17<sup>th</sup> Smart and Secure Environment Workshop, Thiagarajar College of Engineering (TCE), Madurai, March 2011

**Thiyagarajan P**, Demonstrated a work on "Image Steganalysis with combination of Binary Similarity Measures and Chi-Square Statistics", 18<sup>th</sup> Smart and Secure Environment Workshop, National Institute of Technology (NIT), Trichy, June 2011

**Thiyagarajan P**, Presented a paper on "Pattern based 3D Steganography", 18<sup>th</sup> Smart and Secure Environment Workshop, National Institute of Technology (NIT), Trichy, June 2011

**Thiyagarajan P**, Demonstrated a work on "Pattern based 3D Steganography, 19<sup>th</sup> Smart and Secure Environment Workshop, PSG College of Technology, Coimbatore, September 2011

**Thiyagarajan P**, Demonstrated a work on "Dynamic Pattern Based Image Steganography", 19<sup>th</sup> Smart and Secure Environment Workshop, PSG College of Technology, Coimbatore, September 2011

**Thiyagarajan P**, Demonstrated a work on "Anti-Phishing Plug-in using Steganography", 20<sup>th</sup> Smart and Secure Environment Workshop, Anna University, Chennai December 2011

## 2010

**Thiyagarajan P**, Swarnambigai G, Aghila G, Prasanna Venkatesan V, "StegoRivalry: Steganography Vs Steganalysis", pp.104-110, 23-24 April 2010, National Conference on Imaging, Computing, Object and Mining (ICOM'10), ISBN: 978-93-80408-29-3

**Thiyagarajan P**, Prasanna Venkatesan V, Aghila G, "Anti-Phishing Techniques using Automated Challenge Response Method", pp.585 – 590, December 2010 (IEEE Explore) International conference on Communication and Computational Intelligence ISBN: 978-81-8371-369-6 (<https://ieeexplore.ieee.org/document/5738794>)

**Thiyagarajan P**, Demonstration a work on “Comparison of dynamic pattern based Steganography with existing techniques”, 13<sup>th</sup> Smart and Secure Environment Workshop, Anna University, Chennai, March 2010

**Thiyagarajan P**, Presentation a paper on “Stepping-up Internet Banking Security using Steganography”, 13<sup>th</sup> Smart and Secure Environment Workshop, Anna University, Chennai, March 2010

**Thiyagarajan P**, Presentation a paper on “Steganalysis using HSI Color Model”, 13<sup>th</sup> Smart and Secure Environment Workshop, Anna University, Chennai, March 2010

**Thiyagarajan P**, Presentation and Demonstrated a paper on “Building Image Database-Steganalysis using HSI Color Model”, 14<sup>th</sup> Smart and Secure Environment Workshop, Pondicherry University, Puducherry, June 2010

**Thiyagarajan P**, Presented a paper on “Anti-Phishing technique using browser plug-in”, 15<sup>th</sup> Smart and Secure Environment Workshop, Madurai Kamaraj University, Madurai, September 2010

**Thiyagarajan P**, Presented a paper on “Color Model Based Steganalysis using Chi-square”, 16<sup>th</sup> Smart and Secure Environment Workshop, Alagappa University, Karaikudi, December 2010

## **2009**

**Thiyagarajan P**, Presentation a paper on “Heuristic based Image Steganography algorithm using pixel indicator and RGB Intensity”, 11<sup>th</sup> Smart and Secure Environment Workshop, PSG College of Technology Coimbatore, September 2009

**Thiyagarajan P**, Presented and Demonstrated a paper on “Dynamic Pattern Based Image Steganography”, 12<sup>th</sup> Smart and Secure Environment Workshop, NTRO, New Delhi, December 2009

## **Ph.D. Thesis Evaluated / Examiner:**

Examiner to conduct Ph.D. Public viva-voce Examination for the Candidate **Ms.Backiyalakshmi B** Ph.D. thesis titled "An innovative framework for searching health record coupled with privacy preserving techniques in medical domain" **Bharathidasan University** on August, 2024

Evaluated Ph.D. thesis titled Scalable Data Exchange and Redirection of Clients in Large - Scale Distributed IoT Network through MQTT Protocol submitted by the scholar, **Mr. Tirupathi V** (Ref No. CN102300049/Ph.D/Exams/2023) for the award of Ph.D. Degree in the subject Computer Science and Engineering in **Osmania University, Hyderabad** in February 2024

Evaluated Ph.D. thesis titled Investigation of CNN for Detection of Exudates in Digital Fundus Images for Diabetic Retinopathy submitted by the scholar **Ms.Kuraku Nirmala** for the award of Ph.D. degree in the subject in Computer Science and Engineering from **Pondicherry University** in July, 2023

Examiner to conduct Ph.D. Public viva-voce Examination for the Candidate **Ms.G.Vijayasree** Ph.D. thesis titled "Intelligent Customer Relationship management system using data mining techniques"

**Bharathidasan University** on June, 2023

Foreign Examiner Nominee for the Ph.D. thesis titled "A Novel Supervised Methodology for Aspect Based Sentiment Analysis Using A Multivariate Filter Based Two Phase Weighted Correlation Feature Selection Algorithm" submitted by **Ms.Bhamare Bhavana Raghunath** (Reg.No: 2015191102) submitted to **Sathyabama University** on July, 2022

**List of Invited Talks / Paper Presented in Conferences, Workshops:**

104 One week high-end KARYASHALA workshop sponsored by SERB on Deep Learning for Biomedical Signal Processing, organized by Department of ECE, **NIT Puducherry**, Detection of Alzheimer's disease using machine learning algorithms, 19.05.2024

103 National Workshop on Computational Intelligence using Machine Learning, CUTN organized by Department of Computer Science, **CUTN**, BlockChain Technology and its applications in music industry, 27.03.2024

102 Resource Person for National Conference on Computing the Earth Interdisciplinary Approaches in Computer Science and GIS (CEIA GIS 2024) organized by **Tamil University** Thanjavur, Data Analytics in Geographical Information Systems, 26.03.2024

101 Resource Person for National Seminar on Reimagining Libraries Innovations in Technology & Trends sponsored by ICSSR organized by Central Library, **CUTN**, Use of Block chain Technologies in Library Services, 19.03.2024

100 Resource Person for National Conference on Emerging Trends in Information Technology (NCETIT-2024) organized by **Apollo Arts and Science College**, Blockchain Technology, 15.03.2024

99 Resource Person for Two-Day Training Programme on Enhancing Mental Health of Rural Youth Sponsored by RGNIYD organized by Department of Applied Psychology, **CUTN**, Cyber awareness / precautions to deal with cyber threats, 02.03.2024

98 Resource Person for National Conference on Recent Research Advancements in Computational Sciences (NCRACS-2024) organized by **Maris Stella College**, Vijayawada, AP, BlockChain Technology, 27.02.2024

97 One Day National Level Seminar on Anticipating and Proactively Resolving Emerging Cyber Security Challenges sponsored by DRDO organized by **Sri Venkateswara College of Engineering**, Anticipating and Proactively Resolving Emerging Cyber Security Challenges, 09.01.2024

96 National Seminar on IoT Cyber Security: Challenges and Solutions for Social and Real-Life sponsored by ICSSR organized by **Dr.N.G.P. Arts and Science College**, IoT Cyber Security Tools and Technologies, 05.01.2024

95 Invited lecture on The Root of Block chain Technology: Consensus Algorithms organized by **Sir Issac Newton College of Engineering and Technology**, The Root of Block chain Technology: Consensus Algorithms, 20.10.2023

94 One Week National Level Interdisciplinary Short Term Training Program on Exploring Quality Research and its Societal Impact organized by **Dr.D.Y.Patil Institute of Technology**, How to Write and Publish Research Article in Scopus and SCI Journals, 10.10.2023

- 93 Two-Day National Level Technical Seminar on Cyber Security for Nuclear Safety and Security sponsored by BRNS organized by **Rajalakshmi Institute of Technology**, Machine Learning and Security in Cyber-Physical Systems, 26.09.2023
- 92 Faculty Development Programme on Pedagogical Approaches in Enhancing Teaching and Learning organized by **Mount Carmel College**, Artificial Intelligence Tools in Teaching and Learning, 28.08.2023
- 91 Two-day National Conference on Technological Interventions in Educational Industry sponsored by ICSSR organized by **Mount Carmel College**, delivered Keynote Address in the conference, 26.07.2023
- 90 Five-day academic writing workshop organized by **Rajiv Gandhi National Institute of Youth Development (RGNIYD)**, Special address in the inaugural function, 24.07.2023
- 89 Invited talk on Importance of ethical regulation in data analytics: challenges & perspectives organized by **IIT Madras**, Importance of ethical regulation in data analytics: challenges & perspectives, 23.06.2023
- 88 International Conference International Conference on Recent trends in Data Science and its applications organized by **SRM Institute of Science and Technology**, Natural Language Processing : Twitter Sentiment Analysis on 31.03.2023
- 87 2nd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS 2023) organised by **Shree Venkateshwara Hi-Tech Engineering College**, Blockchain Technologies in Data Science : Challenges and Benefits, 23-25 March, 2023
- 86 Two days national seminar on The role of Cyber Security now and the future with AI in India: A Growing National Security Concern? sponsored by ICSSR organized by **Rajalakshmi Institute of Technology**, Cyber threats and the role of artificial intelligence in detecting it, 24.02.2023
- 85 National Youth Day organized by **Dharmamurthi Rao Bahadur Calavala Cunman Chetty's Hindu College**, Cyber Crimes and Cyber Laws, 13.01.2023
- 84 Invited technical lecture on Cyber Crimes and Cyber Laws organized by **National Institute of Science Education and Research (NISER)**, **Bhubaneswar**, Cyber Crimes and Cyber Laws on 05.01.2023
- 83 One Day National Level Workshop on Advanced Artificial Intelligence (AI) methods in Breast Cancer Diagnosis and Clinical Research sponsored by DHR - ICMR organized by **Dr.N.G.P. Arts and Science College**, Deploy the Machine Learning (ML) algorithm for Breast Imaging, 26.11.2022
- 82 UGC HRDC - **Bharathiar University**, Understanding decision trees, adaboost and random forest, 25.11.2022
- 81 UGC HRDC - **University of Madras**, National Language Processing, 23.11.2022
- 80 International Conference on Scientific and Technological Advancements for Reliable and Sustainable future organized by **Bishop Heber College**, Twitter Sentiment Analysis, 17.11.2022
- 79 Invited Talk organized by **Presidency University**, National Language Processing, 11.10.2022

- 78 15-Day Induction Training for Newly Recruited District Youth Officers of Nehru Yuva Kendra Sangathan organized by **Rajiv Gandhi National Institute of Youth Development**, Cyber Crime and Cyber Laws, 30.08.2022
- 77 Invited lecture organized by **Annai College of Arts and Science**, Kumbakonam, Natural Language Processing, 23.08.2022
- 76 Six Day Online Workshop on Teaching and Learning Tools and Technique organized by **Pondicherry University**, Effective Remote Teaching and Learning Tools and Technique, 27.07.2022 to 01.08.2022
- 75 Online Elementary FDP on Blockchain Analytics and Big Data the Future of Business Process sponsored by AICTE - ATAL organized by **Central University of Tamil Nadu**, Blockchain Analytics and Big Data the Future of Business Process, 06.12.2021 to 10.12.2021.
- 74 Short term Training Programming on Big Data Analytics using Soft Computing Tools sponsored by AICTE organized by **Rajiv Gandhi University (A Central University)**, Support Vector Machine and its implementation, 01.12.2021
- 73 Short term Training Programming on Mathematics and Statistics for Machine Learning sponsored by MeitY, GoI organized by **Pondicherry University and NIT Warangal**, Decision Trees, 22.11.2021 to 02.12.2021
- 72 Short term Training Programming on Big Data Analytics using Soft Computing Tools sponsored by AICTE organized by **Rajiv Gandhi University (A Central University)**, Supervised Learning: Decision trees and Adaboost, 10.11.2021
- 71 Seven Day National Level Faculty Development Program on Changing Business Environment and Contemporary Management Technique organized by **St. Joseph's College of Commerce**, Blockchain and its Banking Applications, 23.10.2021
- 70 Webinar organized by **Sri Muthukumarar Institute of Technology**, How to Write and Publish Research Article in Scopus and SCI Journals, 20.10.2021
- 69 Short term Training Programming on Big Data Analytics using Soft Computing Tools sponsored by AICTE organized by **Rajiv Gandhi University (A Central University)**, Python Programming for Data Analytics, 27.09.2021
- 68 UGC - HRDC Online Refresher Course in Computer Science & Applications organized by **Bharathidasan University**, Machine Learning Techniques, 22.09.2021
- 67 Online Elementary FDP on Data Analytics using Python/R Programming sponsored by AICTE-ATAL organized by **National Institute of Technology, Puducherry Karaikal**, Data Analytics using Python Programming, 23-27 August 2021
- 66 Online Elementary FDP on Recent Trends in Cyber Security Domain sponsored by AICTE-ATAL organized by **Manonmaniam Sundaranar University**, Recent Trends in Cyber Security Domain, 05.07.2021 to 09.07.2021
- 65 One Week Online Workshop on Machine Learning - Concepts and Applications organized by **National Institute of Technology, Tiruchirappalli**, Machine Learning Concepts and Applications,

19.04.2021 to 23.04.2021

64 Five Days Online Workshop on Artificial Intelligence & Machine Learning Techniques for Data Analytics organized by **National Institute of Technology, Tiruchirappalli**, Supervised Learning, 15.02.2021 to 19.02.2021

63 Online FDP on Blockchain sponsored by AICTE ATAL organized by **KCG College of Technology**, Blockchain Applications across domains, 21.09.2020 to 25.09.2020

62 International Webinar organized by **Rajah Serfoji Govt. College, Thanjavur** delivered Valedictory Address on 14.06.2020

61 Webinar Lecture Series on Computational Intelligence organized by **Alagappa University**, Current Research Trends in Machine Learning, 06.06.2020

60 One day Webinar organized by **Annai Vailankanni Arts and Science College**, An Overview of Machine Learning, 4, June 2020

59 International Conference on Research Trends in Computing Technologies organized by **Dr.N.G.P. Arts and Science College**, BlockChain Technology, 28-29, February 2020

58 Invited Talk organized by **Central University of Himachal Pradesh**, Integration of ICT in Teachers Education and its Impact in Learning, 25, February 2020

57 Three Days National Conference on Innovation in Teaching and Learning Trends in 21st Century organized by **ICFAI University, Tripura**, A Survey of ICT integration in Teaching and Learning in South Indian Central University, 18-20, February 2020

56 National Seminar on Research Issues in Computer and Communication Network organized by **Amal College of Advanced Studies**, Computer Networks, 14, February 2020

55 International Conference on Computer, Communication and Power Engineering organized by **SASTRA Deemed University**, Keynote Address on Blockchain Technology, 28, December 2019

54 Refresher Course in Computer Science, University Grant Commission, New Delhi, organized by **Bharathidasan University**, Python for Research, 10, December 2019 (Forenoon Session)

53 Refresher Course in Computer Science, University Grant Commission, New Delhi, organized by **Bharathidasan University**, Python for Research, 10, December 2019 (Afternoon Session)

52 Invited Talk organized by **Government College for Women, Kumbakonam**, Blockchain Technology and its Applications, 1, October 2019

51 Invited Talk organized by **Central University of Rajasthan**, Pros and Cons of using ICT in Teacher Education, 13, September 2019

50 Invited Talk organized by **Regional Institute of Education, AJMER**, Use of ICT in Teaching and Learning, 12, September 2019

49 Invited Talk organized by **Central University of Gujarat**, Use of ICT in Teaching and Learning, 9, September 2019

48 Invited Talk organized by **Mizoram University (A Central University)**, Role of ICT in

Education, 16, August 2019

47 Invited Talk on Future Disruptive Technologies organized by **SASTRA Deemed University**, Future Disruptive Technologies, 10, August 2019

46 National Conference on Mathematics and its Application in Technology organized by **SASTRA Deemed University**, Blockchain and its Applications, 29-30, March 2019

45 National Level Conference on Advanced Research in Computer Science and Technology organized by **Swami Dayananda College of Arts and Science**, Inaugural Address on Advancements in IT, 28, March 2019

44 National Level Conference on Advanced Research in Computer Science and Technology organized by **Swami Dayananda College of Arts and Science**, BlockChain and its Applications, 28, March 2019

43 NET/SET Coaching Programme organized by **Periyar University**, Object Oriented Programming, 9, February 2019

42 NET/SET Coaching Programme organized by **Periyar University**, Data Base Management System, 8, February 2019

41 National Level Conference on Advanced Computing and Communication Technologies organized by **Siri PSG Arts and Science College for Women**, IOT Home Security Model, 29, September 2018

40 National Level Conference on Advanced Computing and Communication Technologies organized by **Siri PSG Arts and Science College for Women**, Machine Learning and its applications, 29, September 2018

39 Invited Lecture on Essential Things to be Followed for Successful Computer Engineers organized by **Nethaji Subash Chandra Bose College**, Essential Things to be Followed for Successful Computer Engineers, 27, September 2018

38 Workshop on Object oriented approach in Python organized by **Rajiv Gandhi University (A Central University)**, Object oriented approach in Python, 21, August 2018

37 Orientation Programme organized by **Central University of Tamilnadu**, Role of Computers in Epidemiology and Public Health Students, 31, July 2018

36 Leca 2K18 Programme organized by **Swami Dayananda College of Arts and Science**, Seven Major Cyber Threats 2017 and its Mitigation , 20 July 2018

35 International Conference on Current Research in Engineering Science and Technology 2018 organized by **Jayaram College of Engineering and Technology**, Internet of things and its Applications, Seventh Sense Research Group, 30, April 2018

34 Two Day National Workshop on IoT using Raspberry Pi organized by **Central University of Tamilnadu**, Security Issues in IoT, 5-6, April 2018

33 Invited Keynote Speaker organized by **PSNA College of Engineering and Technology**, Recent trends in Cyber Security Domain, 23, March, 2018

- 32 Invited Talk on Opportunities and Threats in Cyber World organized by **Alagappa University**, Opportunities and threats in Cyber World, 20, March 2018
- 31 Summer School in Computer Science and Applications organized by **Bharathidasan University** sponsored by University Grant Commission, New Delhi, Python for Research, 03, March 2018
- 30 One day National Level Seminar on Cyber Security and Ethical Hacking organized by **Bharathidasan University**, Department of Science and Technology - PURSE, 01st March 2018
- 29 One Day National Workshop on Orientation to Research Fundamentals and Recent Innovations in Computer Science organized by **Central University of Tamilnadu**, Zotero: Open source Reference Management Tool, 24, February 2018
- 28 Special Lecture on Python Programming organized by **Thiagarajar College**, Python Programming , 20 February 2018
- 27 Keynote Address on e-Learning Materials organized by **Thiagarajar College**, Development and Implementation of e-Learning in Discrete Mathematics, 20, February 2018
- 26 Refresher Course in Computer Science organized by **Pondicherry University**, University Grant Commission, New Delhi, Security amelioration using Image Steganography, 3, November 2017
- 25 India International Science Festival 2017 organized by **Anna University**, Mobile App: Mosquitos can Prevent Dengue, 13-16, October 2017
- 24 One Day National Workshop on Digital India Initiatives organized by **Central University of Tamilnadu**, Cyber Security awareness for students, 7th October 2017
- 23 Special Lecture organized by **AVVM Sri Pushpam College**, Big Data Analytics, 18, August 2017
- 22 Special Lecture organized by **Annai College of Arts and Science**, Data Science Analytics, 13, July 2017
- 21 Five Day National Workshop on Digitalization of Resources using Open Source Software DSPACE organized by **Central University of Tamilnadu** sponsored by Information and Library Network Centre, Gujarat, Introduction to Open Source Software and Linux, 20-24, March 2017
- 20 Five Day National Workshop on Digitalization of Resources using Open Source Software EPRINTS organized by **Alagappa University** sponsored by Information and Library Network Centre, Gujarat, Open source software for Libraries, 6-10, March 2017
- 19 Awareness and Orientation Programme 2017 organized by **Central University of Tamilnadu**, First year admitted students, 28, February 2017
- 18 Orientation Programme organized by **Central University of Tamilnadu**, Basic of Computers to Epidemiology and Public Health, 9, September 2016

- 17 Refresher Course in Computer Science organized by **Bharathidasan University**, Python for Researchers, University Grant Commission, New Delhi, 20-21, November 2015
- 16 Refresher Course in Computer Science organized by **Bharathidasan University**, Strengthening Security using Image Steganography, University Grant Commission, New Delhi, 06, March 2015
- 15 Special Lecture organized by **KCG College of Technology**, Cryptography and Network Security, 15, March 2014
- 14 20th Workshop on Smart and Secure Environment organized by **Anna University**, Anti Phishing Plug-in using Steganography, National Technical Research Organization, New Delhi, 16-17, December 2011
- 13 First IDRBT Doctoral Colloquium organized by **Institute for Development and Research in Banking Technology**, Qualitative Analysis of Dynamic Pattern Based Steganography Algorithm in Providing E-Banking Security, 22-23, September 2011
- 12 19th Workshop on Smart and Secure Environment organized by **PSG College of Technology**, Pattern Based 3D Image Steganography, National Technical Research Organization, New Delhi, 16-17, September 2011
- 11 19th Workshop on Smart and Secure Environment organized by **PSG College of Technology**, Dynamic Pattern Based Image Steganography, National Technical Research Organization, New Delhi, 16-17, September 2011
- 10 18th Workshop on Smart and Secure Environment organized by **National Institute of Technology Trichy**, Image Steganalysis with Combination of Binary Similarity Measures and Chi-square Statistics, National Technical Research Organization, New Delhi, 17-18, June 2011
- 9 18th Workshop on Smart and Secure Environment organized by **National Institute of Technology, Trichy**, Pattern Based 3D Steganography, National Technical Research Organization, New Delhi, 17-18, June 2011
- 8 17th Workshop on Smart and Secure Environment organized by **Thiagarajar College of Engineering**, Steganography using Elliptical Curve Cryptography, National Technical Research Organization, New Delhi, 18-19, March 2011
- 7 16th Workshop on Smart and Secure Environment organized by **Alagappa University**, Color Model Based Steganalysis using Chi-square, National Technical Research Organization, New Delhi, 17-18, December 2010
- 6 15th Workshop on Collaborative Directed Basic Research in Smart Secure Environment organized by **Madurai Kamaraj University**, Anti-phishing Technique using browser Plugin, National Technical Research Organization, New Delhi, 17-18, September 2010
- 5 14th Workshop on Smart and Secure Environment organized by **Pondicherry University**, Building Image Database Steganalysis using HIS Color Model, National Technical Research Organization, New Delhi, 18-19, June 2010
- 4 13th Workshop on Smart and Secure Environment organized by **Anna University**, Steganalysis Using HSI Color Model, National Technical Research Organization, New Delhi, 19-20, March 2010

3 13th Workshop on Smart and Secure Environment organized by **Anna University**, Stepping Up Internet Banking Security using Steganography, National Technical Research Organization, New Delhi, 19-20, March 2010

2 13th Workshop on Smart and Secure Environment organized by **Anna University**, Comparison of Dynamic Pattern Based Steganography with existing Technology, National Technical Research Organization, New Delhi, 19-20, March 2010

1 Eleventh Workshop on CDBR - Smart and Secure Environment organized by **PSG College of Technology**, Heuristic Based Image Steganography Algorithm Using Pixel Indicator and RGB Intensity, National Technical Research Organization, New Delhi, 18-19, September 2009

### **Board of Studies Member:**

- Chairperson - Board of Studies, **Department of Computer Science, Central University of Tamil Nadu**, Thiruvarur, 2016
- Expert member in Board of Studies, **Department of Microbiology, Central University of Tamil Nadu**, Thiruvarur, 2018
- Expert member in Board of Studies in **Department of Computer Applications, Nehru Memorial College**, Trichy, 2018
- Expert member in Board of Studies in **Department of Computer Applications, Sree Saraswathi Thyagaraja College**, 2019
- Expert member in Board of Studies in **Department of Information Technology, Mannar Thirumalai Naicker College**, 2019
- Expert member in Board of Studies in **Computer Science Certificate Courses in Community College, Central University of Tamil Nadu**, 2019
- Expert member in Board of Studies in **Department of Computer Science, Government College for Women, Kumbakonam**, 2020
- Expert member in Board of Studies in **Department of Mathematics, Central University of Tamil Nadu**, 2019
- Expert member in Board of Studies in **Department of Computer Science / Information Technology, Alagappa University** from 2019 to 2022
- Expert member in Board of Studies in **Department of Computer Science / Information Technology, Alagappa University** from 2022 to 2025
- Expert member in Board of Studies in **Department of Computer Science, Nehru Memorial College**, 2023
- Expert member in Board of Studies in **Department of Computer Science, Rajah Saraboji College**, Thanjavur, 2023
- Chairperson - Board of Studies, Department of Computer Science (Artificial Intelligence /

Cyber Security / Data Science), **Rajiv Gandhi National Institute of Youth Development**, Sriperumbudur, 2022

- Expert member in Board of Studies in Department of Mathematics for Computer Science / Information Technology courses in **College of Engineering, Gunidy, Anna University**, 2023

#### **School Board Member / Board of Management:**

- Expert member for the **School of Mathematics & Computer Sciences, Central University of Tamil Nadu**, 2024
- Expert member for the **School of Communication, Central University of Tamil Nadu**, 2018
- Member, Board of Management, **Community College, Central University of Tamil Nadu**, 2019

#### **Major Administrative Responsibilities:**

- Dean Research- Rajiv Gandhi National Institute of Youth Development, Sriperumbudur from June 2023 to February 2024
- Chairperson - PG Admission Committee for the academic year, RGNIYD, 2023-24
- Chairperson - Ph.D. Admission Committee for the academic year, RGNIYD, 2023-24
- Computer Lab Head - Rajiv Gandhi National Institute of Youth Development, Sriperumbudur from March 2023 to February 2024
- Placement Officer (Science Departments) - Rajiv Gandhi National Institute of Youth Development, Sriperumbudur from January 2023 to February 2024
- Public Relation Officer - Rajiv Gandhi National Institute of Youth Development, Sriperumbudur from August 2022 to February 2024
- Founder Head of the Department of Computer Science Cyber Security, Rajiv Gandhi National Institute of Youth Development, Sriperumbudur from September 2022 to February 2024
- Founder Head of the Department of Computer Science, Central University of Tamil Nadu from 2016 – 2020.
- Coordinator for “Basic Computer Application” certificate course - Community College from June 2018 to June 2022
- Member academic council, Central University of Tamil Nadu from 2016 – 2020

- Member, Digital Initiative Committee at Central University of Tamil Nadu, 2018
- Nodal Officer, Campus Connect Wi-Fi Project, from 2016 to June 2022. This project worth 5.6 crores was funded by UGC / MHRD. In this project all the academic buildings and hostels are connected with Wi-Fi facility.
- Observer for CUCET 2019 for Madurai Center
- Question paper setter for recruitment process in High Court, Chennai
- Instrumental in setting up high end labs at Department of Computer Science, Central University of Tamil Nadu, Kendriya Vidyalaya, Thiruvarur and in Rajiv Gandhi National Institute of Youth Development.
- Chairperson, Implementation of Indigenous Mail Server for CUTN, 2017
- Doctoral Committee member for scholars in Central University of Tamil Nadu, Sathyabama University, VIT,
- Member, Library advisory committee member, Central University of Tamil Nadu, 2017
- Convener – MHRD Institution Innovation Cell from 2019 to June 2022 and from 2024 to till date
- Chairman – Question paper setting Committee for Bharathidasan University / Alagappa University / Pondicherry University / Manonmaniam Sundaranar University / Periyar University / Anna University / Tamil University / Bharathiar University / Pondicherry Engineering College/ Vignan University

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