

Dr. D. SENTHILKUMAR

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Lakshmi Nagar, Velachery, Chennai – 600 042  
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Tiruchirappalli – 620 021

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## ACADEMIC PROFILE

**Ph.D. Information and Communication Engineering (March 2017)**  
College of Engineering Guindy Campus, Anna University.  
**THESIS TITLE: Efficient Feature Selection and Classification Techniques for Multi-Label Medical Datasets**

**Master of Engineering (April 2008) – 8.64 CGPA (University Second Rank)**  
Specialization: Systems Engineering & Operations Research  
Department of Computer Science & Engineering,  
College of Engineering Guindy Campus, Anna University.

**M. Sc. Mathematics (April 2000) – 80% (I Class with Distinction)**  
Presidency College, Chennai.

## PROFESSIONAL EXPERIENCE

- **Asst. Professor (Sl. Gr. ) (May 2019 - Till Date)**
- **Asst. Professor (Sr. Gr. ) (May 2015 - May 2019)**
- **Asst. Professor (December 2009 –May 2015)**  
Department of Computer Science and Engineering  
University College of Engineering (BIT Campus)  
Anna University, Tiruchirappalli
- **SENIOR LECTURER (June / 2005 – November 2009)**  
Meenakshi College of Engineering, Chennai.
- **LECTURER (June / 2002 – March / 2004)**  
Meenakshi Ammal Arts & Science College for Women, Uthiramerur.

## AWARDS / RECOGNITION / MEDALS RECEIVED

Professor T.R.Natesan Endowment Award & Silver Medal  
(Instituted by Operational Research Society of India- Chennai Chapter) - 2009

### **MEMBERSHIP IN PROFESSIONAL BODIES**

1. Operational Research Society of India – Life Time Member (0977/D/12/ML)
2. Computer Society of India – Life Time Member (I1510308)
3. International Association of Engineers (IAENG) - Member Number: 504814 ( Since 4 February 2025 )

### **SPECIALIZATION SUBJECTS**

- Data Warehouse and Data Mining
- Data Science
- Applied Statistics
- Data Analytics
- Database Management System
- Soft Computing
- Operations Research
- Discrete Event System Simulation
- Supply Chain Management

### **TOOLS AND LANGUAGES**

- Data Science, Machine Learning & Statistics :  
R-Language, Python, SPSS, Clementine, MARS, Weka, CART
- Optimization : Lindo, Lingo , TORA
- Simulation : Extend

### **WORKSHOP/ SEMINAR/ CONFERENCE/ SDP/FDP ORGANISED**

1. CSIR Sponsored Two Day NATIONAL SEMINAR ON “Computational Optimization and Simulation (COS’11)” APRIL 20-21, 2011.
2. One Day Workshop on BIO SIGNALS: DATA MINING PERSPECTIVE, 10<sup>th</sup> April 2013.
3. Faculty Development Training Programmed on CS2302- Computer Networks,30-05-2013 to 05-06-2013 - Sponsored by Centre for Faculty Development, Anna University, Chennai-600 025.
4. Faculty Development Program On “Paradigms of Computing” PC’13-2nd Dec’13 to 8th Dec’13 (7 Days) –TEQIP II Sponsored.
5. Workshop on “Quality Improvement in Technical Education” - 29.01.2014 –TEQIP II Sponsored.

6. Webinar on “Machine Learning using R”, 6<sup>th</sup> July 2020.
7. Coordinator - Two day National Level Technical Symposium ( FENIX ‘ 2023 )
8. Coordinator – Two days Peoples Education Programme on 24.10.2024 & 25.10.2024, University College of Engineering, Anna University, Tiruchirappalli in association with KVIC-MSME under Govt of India.
9. Organizing Committee Member ( First Alumni Meet 2024, UCE BIT Campus)
10. Coordinator - Machine Learning Project using R –Language ( A National Level Technical Symposium on 09.05.2025 – FENIX 2K25) ,Department of Computer Science and Engineering, University College of Engineering, Anna University, Tiruchirappalli.

#### **PUBLICATIONS – JOURNAL / CONFERENCE**

<https://scholar.google.com/citations?user=xmprGiQAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=56006079100>

- 1) Presented a Paper in International Conference on Globalisation, Development, Public Policy and Management: Emerging Issues at Kannur University, Kerala on March 9<sup>th</sup> and 10<sup>th</sup> 2008.
- 2) George Washington, D., Senthil Kumar, D., & Rhymend Uthariaraj, V. (2008). A Decision Support System for Predicting Academic Performance of Candidates in Engineering Admissions using MARS. International Journal of Learning, 15(3). – Impact Factor -.02 (Scopus) – ISSN 14479494, 14479540 (2009-2013, 2015-ongoing)
- 3) Kumar, D. S., Sathyadevi, G., & Sivanesh, S. (2011). Decision support system for medical diagnosis using data mining. International Journal of Computer Science Issues, 8(3), 147-153. – Impact Factor -.242 (Scopus) –ISSN 16940784, 16940814 (2012)
- 4) Subathra, P., Baskar, A., & Kumar, D. S. (2012). Detecting digital image forgeries using re-sampling by automatic Region of Interest (ROI). ICTACT Journal on image and video processing, 2(4), 405-409. (UGC Listed Journal – Sl. No. 336)
- 5) D.Senthilkumar & Dayana M. Thomas,” Decision Support System for Predicting Sales Performance”, International Conference on Electrical Engineering and Computer Science (ICEECS), 17<sup>th</sup> March 2013 - 978-93-83060-02-3.
- 6) S.S.Sarmila, D.Senthilkumar and S.Naganandhini Sujatha, “Empirical Evaluation of Segmentation Algorithm for Pancreatic Cancer Images”, International Conference on Computing, Communication and Information Technology (ICCCIT 2012), 27-29 June 2012 -978-93-82338-02-4.
- 7) A.Prabu & D.Senhikumar, “Urban health care monitoring based on ambulance location analysis using genetic algorithm”, Fourth International Conference on Advances in Computer and Communication- IIST-2013.
- 8) Senthilkumar, D., & Paulraj, S. (2013). Diabetes disease diagnosis using multivariate adaptive regression splines. AGE, 768, 52, pp.3922-3929. (Scopus) – ISSN 09754024, 23198613 (2009-2016 (cancelled))

- 9) D.Senthilkumar, R.Amirthabala & S.Paulraj,"Best Arima Model to Forecast Oral Glucose Tolerance Test (OGTT) Value", "3rd International Conference on Science and Innovative Engineering", April 4<sup>th</sup> and 5<sup>th</sup>, Jawahar Engineering College, Chennai.
- 10) D.Senthilkumar & A.Priyadharshini, "Cardiovascular Abnormalities and Ischemic Detection Based on Heart Beat Classification", Second International Conference on Recent Trends in Computer Science & Engineering (ICRTCSE 2014,Apollo Engineering College, Chennai.
- 11) Senthilkumar, D., Sheelarani, N., & Paulraj, S. (2015). Classification of multi-dimensional thyroid dataset using data mining techniques: comparison study. *Advances in Natural and Applied Sciences*, 9(6 SE), 24-29. (Scopus) (2009-2012 (cancelled))
- 12) Senthilkumar, D., & Paulraj, S. (2015). Prediction of low birth weight infants and its risk factors using data mining techniques. In *Proceedings of the 2015 International Conference on Industrial Engineering and Operations Management* (pp. 186-194).
- 13) Devaraj, S., & Paulraj, S. (2015). An efficient feature subset selection algorithm for classification of multidimensional dataset. *The Scientific World Journal*, 2015. (Scopus) – ISSN 19950772, 19981090 (2000-ongoing)
- 14) D.Senthilkumar, N. Sheelarani, R. Amirthabala," Prediction of Oral Glucose Tolerance Test (OGTT) value using Hybrid Model," *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol.10 No.72 (2015). (Scopus) (2011-ongoing)
- 15) V.Rajeswari and D.Senthil Kumar," Privacy Preservation in Health Care Monitoring System," *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol. 10 No.41 (2015) (Scopus)- ISSN 0973-4562 (2011-ongoing)
- 16) D. Senthil Kumar and S.Sukanya, "Feature Selection using Multivariate Adaptive Regression Splines," *International Conference on Engineering Systems and Designs (ESD2016)- Organized by Avvaiyar College of Engineering & Technology for Women, Puducherry in Association with International Association of Advances in Engineering and Technology (IAAET)*, ISBN:978-81-932252-7-1.
- 17) D. Senthilkumar and S. Paulraj, 2016. Ensemble Deep Learning for Multi Label Classification in the Design of Clinical Decision Support System. *Asian Journal of Information Technology*, Vol.15, no. 15: 2632-2637.DOI: 10.3923/ajit.2016.2632.2637 (Scopus) – ISSN 16823915, 19935994 (Upto 2016).
- 18) D. Senthilkumar, A. K. Reshmy, M. G. Kavitha , 2018, Non-Linear Machine Learning Techniques for Multi-Label Image Data Classification, *Applied Mathematics & Information Sciences*, An International Journal Volume 12, No.6 , pp.1139-1145, doi:10.18576/amis/120608
- 19) Noornisha Mubarak Ali and D. Senthilkumar, 2019, "Efficient Feature Selection Techniques for Multi-Target Dataset", *International Conference on Envisioning the Future for Knowledge Engineering*, In association with Computer Society of India (CSI) and Bangalore University, 08-09, March 2019, Organized by Department of Computer Science and Application, Christ Academy (Institute for Advanced Studies).
- 20) Senthilkumar D., Akshayaa C., George Washington D. (2021) Efficient Deep Learning Approach for Multi-Label Semantic Scene Classification. In: Chen JZ., Tavares J., Shakya

- S., Iliyasa A. (eds) Image Processing and Capsule Networks. ICIPCN 2020. Advances in Intelligent Systems and Computing, vol 1200, pp 397-410. Springer, Cham. [http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-3-030-51859-2\\_37](http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-3-030-51859-2_37). (UGC Approved / Scopus Indexed).
- 21) Senthil Kumar, D., George Washington, D., Reshmy, A.K., Noorunnisha, M. (2022). Energy Performance Prediction of Residential Buildings Using Nonlinear Machine Learning Technique. In: Khanna, A., Gupta, D., Bhattacharyya, S., Hassaniien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1387. Springer, Singapore. [https://doi.org/10.1007/978-981-16-2594-7\\_7](https://doi.org/10.1007/978-981-16-2594-7_7)
- 22) Senthilkumar, D. George Washington, D. Reshmy, A.K., Noornisha, M., Multi-task learning framework for predicting water quality using non-linear machine learning technique, Journal of Intelligent & Fuzzy Systems, vol. 42, no. 6, pp. 5667-5679, 2022, DOI:10.3233/JIFS-212117.
- 23) Senthilkumar D, Reshmy AK, Paulraj S. Dimensionality reduction strategy for Multi-Target Regression paradigm. *Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology*. 2022;44(1):1069-1083. doi:10.3233/JIFS-220412
- 24) D. Senthil Kumar, C. Arivalai, "Energy-Efficient Intrusion Detection in WSN-IoT Using Modified Dingo Optimization and Fuzzy Adaptive DeepNet," *SSRG International Journal of Electronics and Communication Engineering*, vol. 12, no. 8, pp. 210-219, 2025. Crossref, <https://doi.org/10.14445/23488549/IJECE-V12I8P119>.
- 25) Sivanesh, S., Mani, G., & Senthilkumar, D. (2025). BotCB: Unmasking Botnets Through Intelligent Network Traffic Analysis. *International Journal of Distributed Sensor Networks*, 2025(1), 2344785.
- 26) Bajulunisha, A., Surya, M., & Kumar, D. S. (2025, May). MANET: An Enhanced Reinforced Deep Learning Routing Algorithm. In *2025 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC)* (pp. 1-7). IEEE.
- 27) D. Senthil Kumar, S. Sivanesh, G. Mani, K. Rajesh Kambattan "An Innovative Approach to Predicting Employee Attrition through Optimized Neural Mining and Advanced Classification Techniques" ( Accepted for publication in the International Journal of Applied Mathematics (IJAM) (Paper ID: IJAM\_08/25\_AK181007)
- 28) Prabha, K.L., Ezhilazhagan, C., Kumar, D.S. *et al.* Mitigating energy holes and enhancing QoS in delay-tolerant networks: the EEEHR-M protocol. *J Wireless Com Network* **2025**, 89 (2025). <https://doi.org/10.1186/s13638-025-02515-3>

Commented [D1]:

#### CONFERENCES/WORKSHOPS/SEMINAR/ SHORT TERM REFRESHER COURSE ATTENDED

1. One-day workshop on "Recent Trends in Applied Mathematics", 3<sup>rd</sup> November 2006, Jerusalem College of Engineering.
2. Participated in One-day workshop on "Teaching Methodologies" organized by the Department of English, Anna University of Technology, Tiruchirappalli on 5<sup>th</sup> March 2011.

3. One-day workshop on “Teaching Skills and Smart Class Room Tools” at Centre for Faculty Development, Anna University, Chennai 7<sup>th</sup> January 2013.
4. Workshop on Web Service (WWS’13), 03.01.2013 to 04.01.2013, University College of Engineering, BIT Campus, Tiruchirappalli.
5. Participated in the National Seminar on Intellectual Property Rights and Biotechnology (NSIPRB-2013) -22<sup>nd</sup> February 2013, Department of Biotechnology, Anna University, BIT Campus, Tiruchirappalli – 620 024.
6. Presented a paper titled “Decision Support System for Predicting Sales Performance” International Conference on Electrical Engineering and Computer Science (ICEECS), 17<sup>th</sup> March 2013, Inter science Research Network (IRNet), Coimbatore.
7. Workshop on” Quality Initiatives in Technical & Higher Educational Institutions (in Compliance with NBA & NAAC Accreditation)- 22<sup>nd</sup> to 24<sup>th</sup> October 2013, Quality & Productivity Division, Engineering Staff College of India Autonomous Organ of the Institution of Engineers (India), Hyderabad, AP, India.
8. One-day workshop on “Quality Improvement Cell”, 3<sup>rd</sup> December 2013, Centre for Faculty Development, Anna University, Chennai – 600 025.
9. Faculty Development Programme on “Smart Teaching for the NET Generation” (Basic and Advanced Pedagogy), 9.12.2013 to 23.12.2013, Organized by National Institute of Technical Teachers Training & Research, Chennai, Government of India, MHRD.
10. TEQIP II & CSI SIGDATA Sponsored One Week Workshop on "Databases - Learning through Activity, June 23<sup>rd</sup> – 27<sup>th</sup>, 2014, Department of Computer Science and Engineering, Thiagarajar College of Engineering, Madurai, Tamil Nadu.
11. Presented Paper titled “Best Arima Model to Forecast Oral Glucose Tolerance Test (OGTT) Value”, 3<sup>rd</sup> International Conference on Science and Innovative Engineering, April 4<sup>th</sup> and 5<sup>th</sup> at Jawahar engineering college, Chennai.
12. Presented Paper titled, "Cardiovascular Abnormalities and Ischemic Detection Based on Heart Beat Classification", Second International Conference on Recent Trends in Computer Science & Engineering (ICRTCSE 2014, Apollo Engineering College, Chennai.
13. Presented a paper titled “Health Care Decision Making Using Fuzzy Regression for Diabetes Disease Management” in the International Conference on Intelligent Information Technologies (ICIIT), 11<sup>th</sup> to 13<sup>th</sup> December 2014 at the Department of Information Science and Technology, College of Engineering Guindy, Anna University, Chennai.
14. SPFU-TEQIP II Sponsored workshop on “Implementation of Outcome Based Education” from 21<sup>st</sup> to 22<sup>nd</sup> April 2015, organized by Thiagarajar College of Engineering, Madurai.
15. TEQIP II Sponsored Faculty Development Programme on “Network Technologies and Security” from 04-05-2015 19-05-2015 (16 Days), organized by the Department of Computer Science and Engineering Bharathidasan Institute of Technology, Anna University Tiruchirappalli.
16. Foundation Skills in Integrated Product Development (FSIPD) Train-The-Trainer Program from 09-07-2015 to 13-07-2015 Organized by Centre for Faculty Development, Anna University, Chennai in collaboration with IT-ITes Sector Skills Council NASSCOM.

17. TEQIP- II Sponsored course on “Faculty Development Programme” Organized by Bharathidasan Institute of Technology, Anna University, Tiruchirappalli – 620 024 in association with Confederation of Indian Industry (CII) on 1<sup>st</sup> March 2016.
18. TEQIP- II Sponsored Faculty Development Programme on Top Tech Trends (T3) – Driving the future of Information Technology (DFIT), 30<sup>th</sup> June to 13<sup>th</sup> July 2016, organized by the Department of Computer Science and Engineering, Bharathidasan Institute of Technology, Anna University (BIT Campus) Tiruchirappalli.
19. National Level Workshop on “Optimisation and Simulation in Research” on 16.03.2017 organized by the Department of Industrial Engineering, Anna University, Chennai -25.
20. Centre for Faculty Development, Anna University, Chennai Sponsored, Two Week Faculty Development Training Programme on CS6660 – Compiler Design, 3<sup>rd</sup> to 15<sup>th</sup> December - 2018, organized by the Department of Computer Science and Engineering, University College of Engineering (BIT Campus) - Anna University, Tiruchirappalli.
21. National Level E-Quiz on “Big Data Systems” (NLQBDS-2k20) conducted by Department of Computer Science & IT, Kishtwar Campus, University of Jammu on 6/1/2020
22. One Day Online Webinar on “Fine-Tuning research skills for effective writing (Thesis, Article & Proposal) Organized by PG & Research Department of Commerce, Vivekanandha College of Arts and Sciences for Women (Autonomous) held on 03/05/2020,
23. Webinar on 'DEMISTIFYING AI ALGORITHMS', organized by the Department of Computer Applications, School of Computer, Information and Mathematical Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology on 26.05.2020.
24. NPTEL Online Certification (Funded by MHRD, Govt of India), February to April 2020 (8 Week Course on Data Mining - Elite + Silver), Indian Institute of Technology Kharagpur.
25. Online Aptitude Test on Teaching Ability of the Successful Teachers, Organized by PG Department of Commerce on 06/05/2020, Sree Muthukumaraswamy College (Affiliated to University of Madras), Chennai
26. Webinar on Machine Learning with Python, 22<sup>nd</sup> to 27<sup>th</sup> June 2020, Organized by the Department of Computer Science and Engineering, Annamalai University.
27. AICTE Sponsored Six Days Online STTP on Tableau during 27<sup>th</sup> July to 01<sup>st</sup> August 2020, Organized by Department of Computer Science and Engineering, IFET College of Engineering (An Autonomous Institution), Villupuram.
28. Train- the-Trainers program on “PYTHON SKILLS” during 28<sup>th</sup> & 29<sup>th</sup> August, 2020, conducted by Centre for University – Industry Collaboration (CUIC), Anna University Chennai.
29. Presented Paper titled, “Energy Performance Prediction of Residential Buildings Using Non-Linear Machine Learning Technique”, 4<sup>TH</sup> International Conference on Innovative Computing and Communication (ICICC 2021), Organised by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi in Association with University of Valladolid Spain and National Institute of Technology Patna, 20-21st February, 2021.
30. Faculty Development Programme on Automation and Smart Manufacturing Organized by Department of Manufacturing Engineering, College of Engineering, Anna University &

Janatics India Private Limited in association with IITD- AIA Foundation for Smart Manufacturing. from 25th April 2022 to 29th April 2022.

31. Faculty Development Programme on Incubation, Entrepreneurship and Innovation – 28. 11.2022 to 04.12.2022 (07 DAYS) organized by Teaching Learning Centre, Ramanujan College, Internal Quality Assurance Cell (IQAC), University of Delhi Under The Aegis Of Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching, Ministry of Education.
32. Online Induction Training/ Orientation Programme for Faculty in Universities/ Colleges/ Institutions of Higher Education, 22 March - 20 April 2023, Organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Education.
33. National Initiative For Technical Teachers Training (NITTT) - All India Council for Technical Education Certification ( February 2024)  
Module 1 - Orientation Towards Technical Education and Curriculum Aspects  
Module 2 - Professional Ethics & Sustainability  
Module 3 - Communication Skills Modes & Knowledge Dissemination  
Module 4 - Instructional Planning and Delivery
34. Participated in International Workshop on Yoga (07/03/2024), Organized by National Service Scheme, University College of Engineering, Anna University, Tiruchirappall, Tamilnadu, india on the eve of International Womens Day
35. National Initiative For Technical Teachers Training (NITTT) - All India Council for Technical Education Certification ( September 2024)  
Module 5 - Technology Enabled Learning and Life-long self-learning  
Module 6 - Student Assessment and Evaluation  
Module 7 - Creative Problem Solving, Innovation and Meaningful research and development  
Module 8 - Institutional Management & Administrative Procedures
36. Online Faculty Development Programme (FDP) on “Deep Learning with Generative AI for Computer Vision” conducted by Electronics and ICT Academy, Phase II, conducted by PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur Dumna Airport Road, Jabalpur 482005 (Sponsored by Ministry of Electronics and Information Technology, Government of India), on November 8-19.
37. Online Faculty Development Programme (FDP) "Applications of AI for a Better Tomorrow" (Application No. 1730982506) from 9th - 14th December 2024, Organized by School of Computer Science & Engineering, Vellore Institute of Technology (Deemed University).
38. Two weeks online Industrial Training on Data Science, AI, Machine Learning Using Python from 28/01/2025 to 10/02/2025. organized by the Academy of Skill Development (ASD), A unit of Ardent Computech Pvt. Ltd., Kolkatta 700091 (AICTE Neat Cell Evaluated), Ministry of MSME, Govt. of India.
39. Two - weeks Online Joint Faculty Development Programme on “AI for Teaching and Learning” jointly organised by Electronics and ICT Academies held from 18 to 29 August,

2025 under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India.

#### KEY NOTE SPEAKER / JUDGE / MENTOR

1. **“Statistical methods, time series analysis, and statistics tools and its applications”**, CSIR Sponsored Two Day NATIONAL SEMINAR ON “Computational Optimization and Simulation (COS’11)” APRIL 20-21, 2011.
2. **“Data Embedding Security Schemes”**, DRDO Sponsored Seminar on “Steganography Techniques for Secured Data Transmission in Military Intelligence”- 14.12.2012 & 15.12.2012, Kongu Engineering College.
3. **“Optimization Techniques in Computing”** - Faculty Development Program On “Paradigms of Computing” PC’13-2nd Dec’13 to 8th Dec’13 (7 Days) –TEQIP II Sponsored.
4. **“Quality Improvement Through Technology in Technical Education”** - Workshop on “Quality Improvement in Technical Education” - 29.01.2014 –TEQIP II Sponsored.
5. **Judge** - “A state level Science Exhibition for school student” on 06th and 07th September, 2014 organized by the Department of Science & Technology, Tamilnadu and Department of Science & Technology, New Delhi, at Shivani College of Engineering & Technology campus, Tiruchirappalli – 9.
6. **Judge for paper presentation** - National Level Technical Conference - " Recent Trends in Computer Science Engineering and Technology" on 27/08/2014 at SreeSastha College of Engineering, Chennai-600 123.
7. **Key Note Speaker - Cloud Computing** - One Day State Level Seminar on " Recent Trends in IT" on 20/01/2017 as organized by Department of Computer Science at Bharathidasan University Constituent Arts and Science College (CO-ED), Navalurkuttapattu, Tiruchirappalli.
8. **Mentor** (Team FREAKERS) - Smart India Hackathon, 2017.
9. **Resource Person - Data Preprocessing** “Faculty Development Programme on “IT6702 – Data Warehousing and Data mining” 04-12-2017, K. Ramakrishnan College of Technology, Tiruchirappalli.
10. **Guest Lecture** on **“RECENT TRENDS in COMPUTER SCIENCE and ENGINEERING”** on 15<sup>th</sup> February 2018 at Department of CSE & IT, Sri Bharathi Engineering College for Women, Kaikkurichi, Pudukkottai.
11. **Chief Guest**, Inauguration of Department Association, Mastro CSE’18 on 01/08/2018, Department of Computer Science and Engineering at K. Ramakrihsnan College of Technology, Samayapuram, Tiruchirappalli.
12. **Chief Guest**, 7<sup>th</sup> National Conference on “Recent Trends in Computing” on 20/03/2019, organized by Department of Computer Science and Engineering and Information Technology, MAM College of Engineering, Siruganur, Tiruchirappalli.
13. **Guest Speaker: Title: MATLAB for Engineers**, Short Term Course on Numerical Analysis using MATLAB during 15-19th May, 2019, Organized by the Department of Mathematics, National Institute of Technology, Tiruchiappalli.

14. **Resource Person** - Awareness on INTERNSHALA ( 14/08/2019), Unniversity College of Engineering, Anna University,Tiruchirappalli.
15. **Resource Person** - Awareness on ENTREPRENEURSHIP (20/09/2019), Unniversity College of Engineering, Anna University,Tiruchirappalli.
16. **Jury for the Paper Presentation**, National Level Technical Symposium – “TECHGYAN 2020” on 18/02/2020, organized by Sri Ramakrishna College of Engineering, Perambalur.
17. **Resource Person** - Awareness on SUMMER INTERNSHIP (05/03/2020), Unniversity College of Engineering, Anna University,Tiruchirappalli.
18. **Speaker**, FDP on Trending Technologies, Department of Computer Applications, BS Abdur Rahman Crescent Institute of Science and Technology, 14<sup>th</sup> May 2020 to 16<sup>th</sup> May 2020.
19. **Speaker**, One Week Online Faculty Development Programme on the Topic” Machine Learning and Data Science for Engineering Applications” 5<sup>th</sup> June 2020 - 10<sup>th</sup> June 2020 Organized by the Department of CSE and IT of Shadan College of Engineering and Technology, Hyderabad.
20. **Speaker, Webinar on “Machine Learning using R”** Organized by the Department of Computer Science and Engineering, University College of Engineering (BIT Campus), Anna University, Tiruchirappalli on 06/07/2020.
21. **Judge** – Smart India Hackathon 2020 (Software Edition) Grand Finale 1<sup>st</sup> to 3<sup>rd</sup> August 2020
22. **Mentor** (Team FIERCEBUDS) Smart India Hackathon 2020 (Software Edition) Grand Finale 1<sup>st</sup> to 3<sup>rd</sup> August 2020.
23. **Mentor** for four teams during the 100 day long COVID -19 National Bioinformatics Online Hackathon from 29 April 2020 to 03 August 2020, Organized by University College of Engineering (BIT Campus), Anna University, Tiruchirappalli.
24. **Speaker**, Short term course on “**Database and Machine Learning using R Language**” Organized by the Department of Computer Science and Engineering an Information Technology, 09/11/2020 to 10/11/2020, Kings Engineering College, Irungattukottai, Sriperumpudur, Chennai – 602 117
25. **Speaker, (Topic - Introduction to Data Science and Testing of Hypothesis), ISTE** Sponsored Five Days Virtual Short Term Training Program (STTP) “**Machine Learning for Data Analysis in Industry 4.0**”, 08-02-2021 to 12-02-2021, Organized by the Department of Information Technology, Sri Sai Ram Engineering College, Chennai.
26. **Guest Speaker, (Topic - Introduction to Data Science and Simple Machine Learning Project using R - Language)** Five Days Faculty Development Program on “**Data Science and Machine Learning with R Programming**” Organized by the Department of Data Analytics from 22/03/2021 to 26/03/2021, Saveetha School of Engineering.
27. **Resource Person**, Five Day Faculty Development Programme on R Programming, 23<sup>rd</sup>, 24<sup>th</sup>& 27<sup>th</sup> April 2021 7<sup>th</sup> & 8<sup>th</sup> May 2021, Organized by Department of Mathematics, K.Ramakrishnan College of Engineering (Autonomous), Samayapuram, Tiruchirappalli.
28. **Resource person on Introduction to Data Science and Machine Learning Using R Programming** in "AICTE - ISTE Sponsored One Week Virtual Refresher Programme on "Applied Mathematics" Phase III organized by the Department of Mathematics, M.Kumarasamy College of Engineering, Karur from 17.05.2021 to 22.05.2021.

29. **Resource Person** on “**Data Science using R**” in the Five Days Online STTP on Machine Learning and Data Science organized by the Department of Computer Science and Engineering, Sri Venkateswara College of Engineering from 12th June 2021 to 16th June 2021.
30. **Resource Person on Machine Learning (16.06.2021)** in the ATAL Faculty Development Programme titled “ Research Awareness and Challenges in Industry 4.0 “ organized by the Department of Electronics and Instrumentation Engineering, RMD Engineering College, Kavaraipettai from 14.06.2021 to 18.06.2021.
31. **Primary Evaluator & Judge** – Toycathon 2021, Ministry of Education Innovation Cell
32. **Technical Programme Committee Member & Reviewer** - 1<sup>st</sup> International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2021) held on 17<sup>th</sup> & 18<sup>th</sup> December 2021 in online mode, organized by Department of Computer Science, Banaras Hindu University, Varanasi, India.
33. **Resource Person** - "Future Automation of Power System Protection in Indian Power Sector (FAPSP'21) - Phase II" Organized by Department of Electrical and Electronics Engineering, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli from 11.12.2021 to 24.12.2021
34. **Reviewer** - Second International Conference on Computer Science, Engineering and Applications (ICCSEA- 2022). Organized by Department of Computer Science and Engineering, GIET University. Gunupur, Odisha, India, Technically Co-Sponsored by IEEE Kolkatta Section & IEEE Bhubaneswar Subsection) IEEE Conference Record No.54677.
35. **Chief Guest** - One Day National Level Technical Symposium ESPIRE 2K22” on 28/10/2022, organized by the Department of Computer Science and Engineering, Sri Bharathi Engineering College for Women, Pudukkottai.
36. **Resource Person** - First Year Induction Programme ( Internship and Online Training Programme ) , Department of Computer Science and Engineering, University College of Engineering, Anna University, Tiruchirappalli on 21/11/2022.
37. **Technical Programme Committee Member** - 2<sup>nd</sup> International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2022) held on 22<sup>nd</sup> - 24<sup>th</sup> December 2022 in hybrid mode, organized by Department of Computer Science, Banaras Hindu University, Varanasi, India.
38. **Reviewer** - 7th International Conference on Computer, Communication and Signal Processing (ICCCSP 2023), Organized by Department of Information Technology, Sri Sivasubramaniya Nadar College of Engineering.
39. **Resource Person - Data Science and Simple ML project using R Language** during the Six days Faculty Development Programme on “ Foundation of Data Science” conducted by the Department of Computer and Communication Engineering, Sri Eashwar College of Engineering, Coimbatore on 21/07/2023.
40. **Resource Person** - Treasuring the Values of Gandhian Ideology at the "Seminar on Rural Industrialisation" at MAM College of Engineering and Technology, Tiruchirappalli, on October 28, 2023., organized by Khadi and Village Industries Commission under the Ministry of MSME .
41. **Technical Programme Committee Member & Reviewer** – 3<sup>rd</sup> International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2023) held on

- 20<sup>th</sup> to 22<sup>nd</sup> December 2023 in hybrid mode, organized by Department of Computer Science, Institute of Science, Banaras Hindu University, Varanasi, India.
42. **Resource Person** -“Hands-on Workshop on Data Science and Machine Learning using R Language” on 16/02/2024 organized by the Department of Information Technology at K.Ramakrishnan College of Engineering (An Autonomous Institution), Samayapuram, Tiruchirappalli
  43. **Resource Person** -“Artificial Intelligence and Machine Learning Using R Programming” on 26/03/2024 organized by the Department of Information Technology, Artificial Intelligence & Data Science, M.I.E.T Engineering College (An Autonomous Institution), Tiruchirappalli.
  44. **Resource Person** - Faculty Development Program (FDP) “**Recent Advancement and Applications in Artificial Intelligence: Research Perspective**” on 07/05/2024 , organized by the Teaching Learning Centre of Excellence (TLCE), Vellore Institute of Technology, Vellore, Tamilnadu.
  45. **Session Chair** - FENIX’24 Symposium (19/03/2024), Organized by the Department of Computer Science and Engineering, University College of Engineering, Anna University, Tiruchirappalli.
  46. **Session Chair** - Third IEEE Sponsored International Conference on Electrical, Electronics, Information and Communication Technologies (IEEE ICEEICT 2024) held at K. Ramakrishnan College of Engineering, Tiruchirappalli, Tamil Nadu, India during 24 - 26, July 2024.
  47. **Resource Person** : “Hands-on end-to-end Workshop on XAI (Explainable Artificial Intelligence) and Machine Learning using R ” on August 23 and 24, 2024 Organized by Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology.
  48. **Resource Person** - First Year Induction Programme, Department of Electrical & Electronics Engineering, University College of Engineering, Anna University, Tiruchirappalli on 05/09/2024.
  49. **Mentor** (Team HAGKERS) Smart India Hackathon 2024 (Software Edition) Grand Finale 10<sup>th</sup> and 11<sup>th</sup> December 2024 held at Oriental Institute of Science and Technology, Bhopal, Madhya Pradesh.
  50. **Expert Speaker** : **Topic - Introduction to Machine Learning & Data Science, Importance of Explainable Artificial Intelligence (XAI) - Research Perspective** at Five Days Faculty Development Program (FDP) from 27/01/2025 to 31/01/2025 organised by the Teaching Learning Centre of Excellence (TLCE) in association with School of Computer Science Engineering and Information Systems, Vellore Institute of Technology, Vellore.
  51. **Reviewer** – 2nd International Conference ERCICAM 2025 during 7th and 8th March 2025, Organized by NITTE Meenakshi Institute of Technology, Bengaluru, India.
  52. **Coordinator & Resource Person** - Machine Learning Project using R – Language (A National Level Technical Symposium on 09.05.2025 – FENIX 2K25) ,Department of Computer Science and Engineering, University College of Engineering, Anna University, Tiruchirappalli.

**CONSULTANCY WORK**

- Design, Implementation and Testing of LAN & Wi-Fi Technical Committee for Tamil Nadu National Law School, Srirangam Taluk, Tiruchirappalli-620009, Tamil Nadu, India.
- Developed Progressive Web Application (HS Surveillance System – Garudan) for the Tiruchirappalli District Police, Tamil Nadu.

**ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES**

|   |                                                                              |            |           |
|---|------------------------------------------------------------------------------|------------|-----------|
| 1 | Class Coordinator<br>Department of Computer Science and Engineering          | 04/08/2025 | Till Date |
| 2 | Coordinator<br>(Computer Science – Artificial Intelligence, Robotics, Drone) | 20/04/2022 | Till Date |
| 3 | Coordinator<br>(Server Room)                                                 | 10/10/2022 | Till Date |
| 4 | Coordinator<br>Department of Computer Science and Engineering                | 19/01/2020 | Till Date |
| 5 | Coordinator<br>Video Conferencing System                                     | 23/09/2016 | Till Date |

| Sl.No. | Designation                                         | Period                                                                                                      |               |
|--------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------|
|        |                                                     | From                                                                                                        | To            |
| 1      | Coordinator – Time Table                            | May 2010                                                                                                    | December 2014 |
| 2      | Coordinator – Exam Cell (University Examinations)   | November – December (2010)<br>April – May (2011)<br>November – December (2011)<br>January – February (2012) |               |
| 3      | Coordinator - EDUSAT                                | 18/12/2012                                                                                                  | 15/06/2022    |
| 4      | Coordinator – Quality Improvement Cell              | 29/01/2014                                                                                                  | 02/01/2018    |
| 5      | Programme Coordinator - CSE                         | 09/04/2015                                                                                                  | 30/12/2016    |
| 6      | Coordinator - Guest House                           | 19/02/2018                                                                                                  | 15/06/2022    |
| 7      | Coordinator - Student Information Processing System | 25/07/2018                                                                                                  | 30/08/2018    |
| 8      | Coordinator - INTERNSHALA                           | 05/08/2019                                                                                                  | 15/06/2022    |
| 9      | Additional Coordinator - Placement                  | 18/09/2019                                                                                                  | 16/06/2022    |

1. PG Project Coordinator – July 2012 – May 2013
2. Class Coordinator - B.E.(CSE) (2020 - 2023 Batch)
3. PG – Class Coordinator
4. NBA e-SAR Submission Coordinator for Information Technology

5. TNEA 2014 & 2015 – Coordinator (Sales of Application Forms)
6. TANCET-2014 In Person Registration Process - Coordinator
7. TANCET 2014 Examination – Additional Local Coordinator (Tiruchirappalli City)
8. NBA Programme Coordinator - Computer Science and Engineering
9. TWAD Board – AE Examination (14.08.2016) – Committee Member
10. TNEB, TANGEDCO Examination (27.08.2016 and 28.08.2016) – Additional Chief Superintendent
11. Graduation Day – Coordinator  
(Live Streaming, Online Registration and Publicity) (2017,2018,2019,2022,2023 & 2024)
12. Stock Verification Officer
13. TNPSC- Group IV Services 2018 (Chief Invigilator)
14. TNPSC - Group IV Services 2022 (Additional Chief Invigilator)
15. TNEB -TANGEDCO – Examination (27.08.2016 & 30.12.2018) – Additional Chief Superintendent
16. Coordinator - Development of Web Application for Grievance Redressal Cell
17. Chairperson - Computer Science and Engineering (2018 to 2022 Batch )
18. Technical Committee Member - Purchase of Server, Computer and Printer, etc.,(04.10.2019)
19. Chairman - Purchase and Maintainance ( Department of CSE (13.04.2022)
20. Member - Grievance Redressal Cell
21. Coordinator - Technical Support – NBA process (05/01/2018 to 07/01/2018)
22. Technical Head - EDII - Anna Business Incubation Research Foundation - Interview for the Recruitment of Project Staff at Anna University, Chennai (05/01/2021 to 07/01/2021)
23. TANCET 2019, 2020, 2021 & 2022 – Additional Chief Superintendent
24. Technical Coordinator – Conduction of Various Online Faculty Development Programme (2019)
25. Member – Technical Committee Purchase ( Department of MCA) - 15.11.2023
26. Member – Technical Committee Purchase ( Department of Civil Engineering) - 20.12.2023
27. Laboratory Panel Coordinator - Department of CSE (2022 to 2023)
28. Organizing Committee Member - First Alumni Meet 2024
29. Discipline Committee Member - (KRIDA-24)
30. TNPSC Examination - Expert ( Panel of Examiners) -2024.
31. Technical Committee Member - Digital Library Network Connection (25.09.2024).
32. Organizing Committee Member ( First Alumni Meet 2024, UCE BIT Campus)

**RESEARCH GUIDANCE: POST GRADUATE PROJECT**

| S.No. | Degree       | Name of the Candidate     | Register Number | Title of the Project                                                                       |
|-------|--------------|---------------------------|-----------------|--------------------------------------------------------------------------------------------|
| 1     | M.E.SE       | DHIVYA.P                  | 1110537007      | Decision support system for stock market using mars                                        |
| 2     | M.E.CSE      | SARMILA.S.S               | 1109901543      | Medical image segmentation using fuzzy-c-means Algorithm and active control model          |
| 3     | M.E.(MBCBS)  | SUBATHRA.P                | 1109901548      | Digital Image Forgery Detection                                                            |
| 4     | M.E.SE       | DAYANA M.THOMAS           | 810011421005    | Mining online reviews for facilitating Business improvement                                |
| 5     | M.E.CSE      | PRABU.A                   | 01110901044     | Urban health care monitoring based on Ambulance location analysis using genetic Algorithm  |
| 6     | M.E.SE       | AMIRTHABALA R             | 810012421003    | Decision support using data mining in Heath care sector                                    |
| 7     | M.E.CSE      | PRIYADHARSHINI.A          | 810012405017    | Cardiovascular abnormalities and i Schemic detection based on heartbeat Classification     |
| 8     | M.E.(MBCBS)  | IMMACULATE REXI JENIFER.P | 810011993021    | Graph based data partitioning with Feature identification scheme                           |
| 9     | M.E.(MBCBS)  | AYYANA PRABU.J            | 810011993011    | Neural network based face recognition Using Gabor and local binary pattern                 |
| 10    | M.E.MPC      | SHEELARANI.N              | 810013405019    | Design a decision making system for Multi-label dimensional health care Dataset            |
| 11    | M.E.CSE      | RAJESWARI.V               | 810013435013    | Privacy preserving in healthcare Monitoring system                                         |
| 12    | M.E.MPC      | S.KALA                    | 810014435011    | Reliable and secure multi-label medical data Classification                                |
| 13    | M.E.MPC      | S.SUKANYA                 | 810014435022    | Multi-dimensional medical data classification using Ensemble based classifier              |
| 14    | M.E.CSE (PT) | K.MUTHUKARUPAEE           |                 | Privacy preserving framework for multi-label Data mining                                   |
| 15    | M.E.MPC      | S.KALA                    | 810014435011    | A study on feature selection techniques for Multi -label medical classification            |
| 16    | M.E.MPC      | S.SUKANYA                 | 810014435022    | Ensemble based multi-label medical data Classification using hybrid data mining techniques |
| 17    | M.E.CSE      | B. KRISHNA KUMARI         | 810015405008    | User based access and authorization social Recommender system                              |
| 18    | M.E.CSE      | M.NOORUNNISHA             | 810017405007    | Efficient Feature Selection Techniques for Multi - Target Dataset                          |
| 19    | M.E.CSE      | C.AKSHAYAA                | 810018405001    | Efficient Classification Technique for Multi Label Scene Dataset                           |

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- Asian Journal of Mathematics and Computer Research
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- Applied Clinical Informatics
- International Journal of Information Technology & Decision Making
- Asian Journal of Research in Computer Science
- Computational Intelligence An International Journal, Wiley Periodicals
- Journal of Intelligent & Fuzzy Systems
- Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
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- Bulletin of Electrical Engineering and Informatics (BEEI). BEEI, ISSN: 2089-3191
- Journal of Engineering Research and Sciences
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