

## BIO DATA



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Anna University Supervisor Number: 3340032-ICE

### 1. Educational Qualification

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| Degree | Branch / Specialization                   | Institute/University                                  | Year of Passing |
|--------|---|---|-----------------|
| B.TECH | Information Technology                    | PSNA College of Engineering and Technology, Dindigul. | 2006            |
| M.E    | Software Engineering                      | Anna University, Tiruchirappalli                      | 2009            |
| Ph.D   | Information and Communication Engineering | Anna University, Chennai                              | 2016            |

### 2. Professional / Industry Experience

: (in chronological order)

| S.No | Designation                               | Institution/ Organization   | Period     |            |
|------|---|---|------------|------------|
|      |   |   | From       | To         |
| 1.   | Professor                                 | Ramco Institute of Technology   | 26.06.2025 | Till date  |
| 2.   | Associate Professor & Head – CSE(AIML)    | SRM Madurai College for Engineering and Technology, Sivagangai District                 | 20.01.2025 | 13.06.2025 |
|      | Associate Professor/IT                    |   | 22.01.2024 | 19.01.2025 |
| 3.   | Associate professor /CSE                  | Dr. Mahalingam College of Engineering and Technology (Autonomous), Pollachi, Tamil Nadu | 01.04.2022 | 03.01.2024 |
|      | Assistant Professor (Selection grade)/CSE |   | 18.12.2017 | 31.03.2022 |
| 4.   | Associate professor /CSE                  | Bharat Institute of Engineering and Technology, Mangalpally, Hyderabad, Telengana       | 08.03.2017 | 11.12.2017 |

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|    |   |   |            |            |
|----|---|---|------------|------------|
| 5. | Assistant Professor<br>(Senior - Grade)/CSE | Bannari Amman Institute of<br>Technology(Autonomous),<br>Sathyamangalam, Tamil Nadu | 01.08.2013 | 02.03.2017 |
|    | Assistant<br>Professor/CSE                  |   | 01.01.2011 | 31.07.2013 |
|    | Lecturer/CSE                                |   | 01.06.2009 | 31.12.2010 |
| 6. | Training Engineer                           | Mazenet Solutions, Coimbatore   | 15.05.2006 | 30.05.2007 |

### 3. Research Interest

Machine Learning, Soft Computing, Computer Networks

### 4 Publications

#### 4.1 Journal Publications

- **Pandi M** & Premalatha K, 2014, “An Advanced nelder mead simplex method for clustering gene expression data”, World Academy of Science, Engineering and Technology, International Journal of Computer, Information, Systems and Control Engineering, vol.8, no.4, pp.588-596.
- **Pandi M** & Athul Jose, 2014, “An Efficient Shuffled Frog Leaping Algorithm for Clustering of Gene Expression Data”, International Journal of Computer Applications, vol.5, no.1, pp. 439-445.
- **Pandi M** & Rahini Priya VTG, 2015, “Clustering of Gene Expression data Using Enhanced Cuckoo Search”, International Journal of Applied Engineering Research, vol.10, no.20, pp. 17031-17036. (Scopus Indexed)
- **Pandi M** & Premalatha K, 2015, “Clustering microarray gene expression data using enhanced harmony search”, International Journal of Bio-Inspired Computation (IJBIC), vol.7, no.5, pp. 296-306, ISSN:1758-0366(Print), ISSN:1758-0374 (Online). (Anna University Annexure I) Impact Factor: 3.969).
- **Pandi M** & Premalatha K, 2016, “A Cuckoo Search with Differential Evolution for Clustering Microarray Gene Expression Data”, World Academy of Science, Engineering and Technology, International Journal of Computer, Information, Systems and Control Engineering, vol.10, no.2, pp.334-339. (Annexure II) (SJIR 0.12).
- **Pandi M**, Sowmiya G & Shobika R, 2016 “A Comprehensive Review of Aspect Identification and Sentiment Classification Techniques for Users Reviews” CiiT International Journals.
- Priya S & **Pandi M**, 2016 “Group Nearest Query Search In Multi-Dimensional Spatial Data” International Journal Of Recent Trends In Engineering & Research, vol.2, no.11.
- Konduru Chaitanya, **Dr. M. Pandi** and Mrs.L.K. Indumathi, 2017 “A Fair Cooperative Routing Method For Heterogeneous Overlapped Wireless Sensor Networks” International Journal of Research in Advanced Engineering Technologies, Volume 6, Issue 2, pp.54-59.
- **Pandi M**, Balamurugan R, Sadhasivam N, 2017 “Cancer Detection in Microarray Data Using a Modified Cat Swarm Optimization Clustering Approach” Asian Pacific journal of Cancer

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Prevention , Vol. 18, No.12, pp. 3451 – 3455. (Anna University Annexure I)

- Sadhasivam N, Balamurugan R, **Pandi M**, 2017 “Cancer Diagnosis Epigenomics Scientific Workflow Application Scheduling in Cloud Computing Environment Using Improved PSO Algorithm” Asian Pacific Journal of Cancer Research. Vol. 19, No.1, pp. 243 – 246.(Anna University Annexure I)
- Sivakumar T, Veeramani S, **Pandi M**, Ganesh Gopal, 2020 “A Novel Encryption of Text Messages using Two Fold Approach” Recent Advances in Computer Science and Communications, Vol. 13, No. 1, ISSN: 2666-2566 (Scopus Indexed)
- Sivakumar T, Veeramani S, **Pandi M**, Senthil Madasamy N, Rakesh Kumar, 2020 “A Novel Permutation Based Encryption using Tree Traversal Approach” Recent Advances in Computer Science and Communications, Vol. 13, No. 1, ISSN: 2666-2566 (Scopus Indexed)
- S.Arunkumar, B.Vinoth Kumar, **M.Pandi**, 2020 “Artificial bee colony optimization based energy-efficient wireless network interface selection for industrial mobile devices, Computer Communications (Springer), Vol. 154, No. 01, pp.1-10,ISSN : 0140-3664. (Anna University Annexure I) (Impact Factor: 2.816).
- Sandhya R, Sabarinathan S, Swathi V, **Pandi M**, 2020 “Smart Ordering System using Speech Recognition, International Journal of Creative Research Thoughts, Vol.8, No. 2, pp. 1692-1698, ISSN: 2320-2882
- **Pandi M**, Dhinesh Prabhu T, Sivabalan P, Suresh A, Yogashri RK, 2020 “Seizure Detection in EEG Signals using Convolution Neural Network (CNN), International Journal of Innovative Research In Computer and Communication Engineering, Vol. 8, No. 3, pp.173-179, ISSN:2320-9798.
- S Veeramani, B Indira, **M Pandi**, T Sivakumar, 2020 “An Efficient Flow Table Management of Flow Entry in Open flow Switch/Router, International Journal Of Scientific&Technology Research, Vol. 9, No. 4, pp.2880-2886, ISSN 2277-8616 (Scopus indexed).
- S.Arunkumar, B.Vinoth Kumar, **M.Pandi**, 2021 “Energy-Efficient Adaptive Wireless Network Interface Selection with Multi-Objective Gaussian Mutational Chaotic Fruit Flybuilt Optimization for Industrial Mobile Devices” Wireless Personal Communications (Springer), (Submitted) (Anna University Annexure I)
- **M Pandi**, T Sivakumar, N Senthil Madasamy & N Sadhasivam, 2021, “Hybrid Genetic Algorithm and Simulated Annealing for Clustering Microarray Gene Expression data”Journal of Physics: Conference Series 1767 (2021) 012034, IOP Publishing, doi:10.1088/1742-6596/1767/1/012034 (Scopus Indexed)
- T Sivakumar, **M Pandi**, N Senthil Madasamy & R.Bharathi, 2021, “An Image Encryption Algorithm with Hermite Chaotic Polynomials and Scan Pattern” Journal of Physics: Conference Series 1767 (2021) 012044, IOP Publishing, doi:10.1088/1742-6596/1767/1/012044 (Scopus Indexed)

- Dr.Syed Khasim, **Dr.M.Pandi**, Dr T Sivakumar, Dr.S.Veeramani, Purshottam J. Assudani, Dr.S.Karthick, 2021 “A Hybrid Bird Swarm-Differential Search Methods, Based On Wsn For Trusted ClusterBased Energy And Lifetime Aware Routing” International Journal of Aquatic Sciencs(IJAS), Vol 12, Issue 01. (Scopus Indexed)
- Dr.M.Balakrishnan, **Dr.M.Pandi**, K.Ananthi, Dr.N.Senthilmadasamy, 2022, “Machine Learning Techniques for Real Estate Prediction” Positif Journal, Vol 22, Issue 8, pp.303-313. (Scopus Indexed)
- Dr N Sadhasivam , Adaikkammai.A , **Dr M Pandi**, 2022 “Cipher Text Policy Attribute Based Encryption Model for Data Protection in Cloud Computing Environment” Positif Journal, Vol 22, Issue 9, pp.243-249. (Scopus Indexed)
- Dr N Sadhasivam, **Dr M Pandi**, Mrs. A Adaikkammai, 2022 “An Enhanced PSO Algorithm for Cancer Diagnosis using Epigenomics Scientific Application in Cloud Computing Environment” Asian Pacific journal of Cancer Prevention (Scopus Indexed)
- R. Muthu Baharathi, **Pandi M**, (2023), “Efficient Workload Allocation in IoT-FOG-Cloud Architecture using NSABC algorithm” IEEE Internet of Things(Under Review)
- **Pandi M**, Veeramani S, Dinesh Paper T, Indra B, (2023), “A perspective on using deep convolutional neural networks to predict epileptic seizures using electroencephalography signals”, Neural Computing and Applications, Springer(Under Review)
- R. Muthu Baharathi, **Pandi M**, (2024), “Efficient Workload Allocation in IoT Fog-Cloud Architectures using NSABC Algorithm” Neural Network World (Anna University Annexure -1) (Under Review)
- R. Muthu Baharathi, **Pandi M**, (2024), “Efficient Workload Allocation in IoT Fog-Cloud Architectures for Energy Efficiency And Low Latency Using DEABC Algorithm” KSIKOR SOC INTERNET INFORMATION. (Anna University Annexure -1) (Under Review)
- R. Muthu Baharathi, **Pandi M**, (2024), “E Adaptive Workload Allocation in IoT-Fog-Cloud Environments Using Enhanced Deep Reinforcement Learning” Journal of Nanoelectronics and Optoelectronics. (Anna University Annexure -1) (Under Review)
- Muthubharathi R, **M. Pandi**, Vinoth Kumar B, and A. SenthilKumar, (2025), “Efficient Workload Allocation in IoT Fog-Cloud Architectures for Energy Efficiency and Low Latency Using DEABC Algorithm”, KSII TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS VOL. 19, NO. 2, Feb. 2025

## 4.2 Book / Book Chapter publications

- **M. Pandi**, 2017, “Modified Neldermead Simplex Method for Clustering Gene Expression Data”, LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany. (ISBN- 978-620-2-02430-3)
- **M. Pandi**, 2018, “Clustering Gene Expression Data Using Modified Cuckoo Search Algorithm”, LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany. (ISBN:978-6139582136)

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- Maheswaran S, Vivek B, Ridhish R, **Pandi Malaisamy**, Senthil Madasamy N, Poovizhi S, Gomathi R D, (2022), “Cell-Free Cooperative NonOrthogonal Multiple Access for 6G Wireless Systems” IGI Global Publishers, DOI: 10.4018/978-1-7998-9636-4.ch007. (Published on March 2022), SCOPUS INDEXED.
- **M. Pandi**, M. Ambika, A. Syed Musthafa, R.Nithya (2024), “MIND AND MACHINE: Exploring Artificial Intelligence”, Book Pen Publishing. (ISBN Number 97893-94874619)

### 4.3 Publications in National/International Conferences

- **Pandi M** “A Review on Bi-clustering of gene expression data”, in Proceedings of the International Convention cum Pre-Conference Workshop on “Innovations in Engineering and Technology for Sustainable development”, Jointly Organized by University of Derby & BIT at Bannari Amman Institute of Technology, Sathyamangalam, during 3rd – 5th September 2012.
- **Pandi M & Athul Jose** “An Efficient Shuffled Frog Leaping Algorithm for Clustering of Gene Expression Data”, in Proceedings of International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS-14), Karpagam College of Engineering, Coimbatore, 13-14 March, 2014.
- **Pandi M** “Next generation networks”, in Proceedings of the International Conference on Innovations in Computing Techniques (ICICT-2015) Conducted by Juniper networks at PSG College of technology, Coimbatore, 22nd January 2015.
- **Pandi M** “A Modified Cuckoo Search for Clustering of Microarray Gene Expression Data”, in Proceedings of the International Conference on Frontiers of Computational Intelligence(ICFCI'16), KSR College of Technology, Tiruchengode, March 05, 2016.
- **Pandi M** “A Qos based Link Estimation Routing Algorithm for Wireless Sensor Networks”
- in Proceedings of the National conference on Microwave and optical Communication(NCMOC 2009), Alagappa Chettiar College of Engineering and Technology, Karaikudi, April 16, 2009.
- **Pandi M** “Biclustering Gene Expression Data using Cheng and Church Algorithm’ in Proceedings of the Sixth National conference on Emerging Trends in Computer Science and Engineering at K.S.Rangasamy College of Technology, Tiruchengode, January 4, 2012.
- **Pandi M** “A Review on Bi-clustering of gene expression data”in Proceedings of the National seminar cum conference on Cancer classification using microarray gene expression data, Bannari Amman Institute of Technology, Sathyamangalam, 20-21, July 2012.
- **Pandi M** “An advanced Nelder mead simplex method for Clustering of gene expression data”, in Proceedings of the National Conference on Recent Trends and Advances in information Technology (NCIT 2014), Karpagam University, Coimbatore, March 11, 2014.
- **Pandi M** “Detecting Packet drop Attacks in MANETS using Negative selection Algorithm”, in Proceedings of the National Conference on Trends in Engineering Applications and Management, Velalar College of Engineering and technology, Erode, March 26, 2016.

- **Pandi M** “Modified Harmony Search method for clustering Microarray Gene Expression Data”, in Proceedings of the National Conference on Recent Trends in Ubiquitous Computing & Communication Technology”(RTUCCT-2016, Bannari amman Institute of technology, Erode, 09-10th December 2016.
- **Pandi M** “Violence Detection System Using Convolution Neural Network”, in “Proceedings of the International Conference on Future technologies in Engineering, Science & Humanities”(ICFTESH-2019), held at Sri Guru Institute of Technology, Coimbatore, 22nd February 2019.
- **Pandi M** “Seizure detection in EEG signals using Convolutional Neural Network(CNN)”, in Proceedings of the National Conference on Computing Communication Technology and science ”(NCCCTS’20), held at Muthayammal College of Engineering, Namakkal, 6th March 2020.
- **Pandi M** “An Image Encryption Algorithm with Hermite Chaotic Polynomials and Scan Pattern”, in Proceedings of the International E-Conference on Data Analytics, Intelligent Systems and Information Security”(ICDIIS’20), held at Dr.Mahalingam College of engineering and Technology, Pollachi, during 11-12 December 2020.
- **Pandi M** “Hybrid Genetic Algorithm and Simulated Annealing for Clustering Microarray Gene Expression data”, in Proceedings of the International E-Conference on Data Analytics, Intelligent Systems and Information Security”(ICDIIS’20), held at Dr.Mahalingam College of engineering and Technology, Pollachi, during 11-12 December 2020.
- K.Ananthi, **Dr.M.Pandi**, (2022) “Bug Recognition using Hybrid Fuzzy Logic algorithm and Support Vector Machine classification, IEEE - 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N) Galgotias College of Engineering and Technology, Noida, U.P during 16-17 December 2022(IEEE Conference Record Number #56670 & ISBN : 978-1-6654-7436-8)
- Dr T Kumaresan , Dr N Sadhasivam, **Dr M Pandi**, Dr M Balakrishnan, Dr P Subramanian,(2023), “AN ENHANCED ENSEMBLE CLUSTERING METHOD FOR IDENTIFYING PHONY NEWS IN SOCIAL MEDIA PLATFORM” 1st International Conference on Artificial Intelligence and Block Chain (ICAIBC 2023), Bannari Amman Institute of Technology, Sathyamangalam. 5-6 January 2023.
- Rakul J, Thennilavan M, Jisholin C J, **Dr.M.Pandi**,”An Efficient System for Automation Facial Recognition using HCI”, Virtual International Conference on Emerging Techniques in Engineering and Internet of Things(ICETET-23), International institute of Smart Engineering and Technology on 14.05.2023.
- **Dr.M.Pandi**, D S Tamilarasan, R.Nikesh, R.Samitha,”Smart Traffic Light Monitoring System Using Image Processing”, 3rd International Conference on Recent Trends in Engineering Technology and management 2023, Christ the King Engineering College during 06.05.2023-07.05.2023.

## 5 Funded Projects

| S.No. | Title of the project                                       | Funding Agency | Duration | Amount   | Status  |
|-------|--|----------------|----------|----------|---------|
| 1.    | Modernization and removal of Obsolescence Scheme”(MODROBS) | AICTE          | 01 Years | Rs.80000 | Granted |

## 6 Ph.D. guidance

| Sl. No | Scholar name    | University               | Topic   | Status           |
|--------|-----------------|--------------------------|---|------------------|
| 1.     | Arunkumar S     | Anna University, Chennai | Efficient Optimization Techniques and Energy Consumption algorithms for Optimal Wireless Network Interface Selection Over Industrial Mobile devices | Completed        |
| 2.     | Muthubharathi R | Anna University, Chennai | Investigation on Deep Reinforcement Learning and Optimization for adaptive workload Allocation in IOT-Fog-cloud environment                         | Thesis Submitted |

## 7 Short term Courses / Seminars /FDP/Workshop/Conference Attended:

- Attended the Two-day National Seminar on “Knowledge discovery in Microarray gene expression data” conducted at Bannari Amman Institute of Technology, Sathyamangalam, October 19-20, 2012.
- Participated in the Two-day Workshop on “Personal Effectiveness Programme (PEP)” conducted at Bannari Amman Institute of Technology, Sathyamangalam, October 11-12, August, 2012.
- Attended in the National Workshop on “Open Source Grid and Cluster Computing Frameworks” conducted at Bannari Amman Institute of Technology, Sathyamangalam, February 26–27, 2010.
- Participated in “Cisco SAARC Academy meet 2010” conducted by Cisco at Taj Residency, Bangalore, March 26, 2010.
- Participated in the National Workshop on “Open Source Tools for Research in Data Mining” conducted at Bannari Amman Institute of Technology, Sathyamangalam, November 28, 2009.
- Participated in the Workshop on “Cisco Networking Academy Retooling workshop ” conducted by Cisco at Hotel Rahna Regent, Coimbatore, July 29, 2011.
- Participated in the National Seminar on “Security Intelligence for Global Applications” conducted at Bannari Amman Institute of Technology, Sathyamangalam, May 27–28, 2011.
- Participated in the Staff Development Programme on “Class Room Teaching and Evaluation”

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conducted by NITTTR, Chennai and Bannari Amman Institute of Technology, Sathyamangalam, 22–24, June 2009.

- Completed one month course on “Build Your Own PC” conducted by HRDC-Continuing education cell of PSNA College of Engineering and Technology, from 04-02-2005 to 10-03-2005.
- Completed the In-plant training on “Railway network and the functionalities of network components used” at Railnet software solutions Madurai Division during 27th November to 6th December 2003.
- Attended a Two-week ISTE workshop on “Database Management Systems” Conducted by Indian Institute of Technology Bombay(IIT-B) from 21st to 31st May, 2013.
- Attended the National Seminar on “Applications of soft computing in medical image processing” conducted at Bannari Amman Institute of Technology, Sathyamangalam, March 4-5, 2011.
- Attended the National Seminar on “Heuristic Optimization Techniques for Engineering and Research Applications” conducted at Bannari Amman Institute of Technology, Sathyamangalam, September 24–25, 2010.
- Attended the National Seminar on “Computational intelligence in Medicine and Health care (CIMHC-2012)” conducted at Bannari Amman Institute of Technology, Sathyamangalam, August 10-11, 2012.
- Attended the National Workshop on “Modernization of Digital Library for Managing e-Resources using DSpace and Digi-MAT” conducted at Bannari Amman Institute of Technology, Sathyamangalam, 16th May, 2015.
- Attended the Faculty Development Programme on “Knowledge Management” Conducted by Tata Consultancy Services (TCS) at TCS - Siruseri Campus Chennai, 6th July 2015.
- Attended “Global IPD Week, June 2016” hosted by the Technical Field Engagement team of CISCO, May 31, 2016 - June 3, 2016.
- Attended the National workshop on “Multimedia workshop” Conducted by Bannari Amman Institute of Technology in Association with ONEYES TECHNOLOGIES Chennai, 21-22 September 2016.
- Attended the National workshop on “Internet Of Things (IOT)” Conducted by Bannari Amman Institute of Technology in Association with ONEYES TECHNOLOGIES Chennai, 21-22 September 2016.
- Attended the Industrial Seminar on “Enterprise Resource Planning” in Sevenses Global Express Logistics Pvt. Ltd. Cochin, 24th August 2016.
- Attended the Industrial Seminar on “Computer Networks” in Chips Software Systems. Kochi, 23rd August 2016.
- Attended a Five Days FDP program on “Deep Learning with Matlab and Python” from July 11-15, 2020 conducted by SRM Institute of Science and Technology, Ramapuram, Chennai.
- Attended a Five Days FDP program on “Emerging Trends in Ethical Hacking and Cyber Security” from July 6-10, 2020 conducted Department of CSE, Hindustan Institute of Technology,

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Coimbatore.

- Attended a Six Days FDP program on “on Data Science Bootcamp ” from June 18-25, 2020 conducted by Amirtha University in association with Nagarcoil and Hebeon Technology, Hyderabad.
- Attended a Six Days FDP program on “Latest Trends and Challenges in Information Technology ” from June 15-20, 2020 conducted by Department of Computer Science and Engineering, RMD Engineering College, Chennai.
- Attended a One Week FDP program on “Data Science ” from June 8-12, 2020 conducted by Department of Data Science, Loyala College, Chennai.
- Attended a One Week FDP program on “Emerging IT Technologies” from May 29-June 2, 2020 conducted by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj.
- Attended a FACM Student chapter sponsored Five Days FDP program on “Data Processing and visualization using python” from May 26- 30, 2020 conducted by Priyadharashini College of Engineering, Nagpur.
- Attended a Five Days online FDP Program titled on “Big Data Analytics”, from 18-22 May 2020 conducted by National Institute of Technical Teacher Training and Research (NITTTR) by Chandigarh.
- Attended a ATAL-AICET Sponsored Five Days online FDP Program titled on “Block Chain Technology”, from 11-15 May 2020 Conducted by Punjab Engineering College.
- Attended a IIC-AICET Sponsored Five Days online FDP Program titled on “IPR Awareness and Patent Prosecution”, from 6-10 May 2020.
- Attended a IIT Roorkee-AICET Sponsored nine Days online FDP Program titled on “Machine Learning and its applications”, from 21-29 April 2020.
- Attended a Four Days FDP on Data Science on December 2019 at Dr. MCET, Pollachi.
- Attended Institution’s Innovation Council(IIC) Regional Meet at PSNA College of Engineering and Technology, Dindigul on 08.08.2022.
- Attended 5 Days FDP on “Application of machine learning and Artificial intelligence in research and innovations” Regional College for Education, Jaipur from 02.05.2023 –06.05.2023.
- Attended one day FDP on “AI Tools in Action” Conducted by CII Erode Section on 17.11.2023 at D’Wayfare resort Inn.
- Attended a Three Days FDP program on “Data Science for Healthcare Applications” from 22.01.24 – 24.01.24 conducted by Department of Information Technology, SRM Madurai College for Engineering and Technology. Madurai.
- Attended a one week FDP program on “Empowering Educators: Advancements in Computing Pedagogy” from 12.02.24 to 17.02.2024 conducted by Department of AI & DS, Vishwakarma institute of Technology, Pune.
- Attended a one week FDP program on “Python for Data Sciences” from 12.03.24 to 15.02.2024

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conducted by Anna University Regional Campus Madurai under Naan Mudhalvan Scheme.

- Attended a one week STTP program on “Generative AI and the Future of Work” from 22.07.24 to 26.07.2024 conducted by School of Computer Science and Engineering, REVA University, Bengaluru.
- Attended a one week FDP program on “Generative AI and prompt Engineering” from 25.11.2024 to 29.11.2024 conducted by School of Computing, SRM Institute of Science and Technology, Kattangulathur, Chennai.

#### **8. Short term Courses / Seminars /FDP/Workshop/Conference organized:**

- Organized ICMR Sponsored Two-day National Workshop on “Intelligent Mining for Biomedicine” during 11-12th March 2011 at Bannari Amman Institute of Technology, Sathyamangalam.
- Organized CSIR Sponsored Two-day National Seminar on “Smart Antennas in Fourth Generation Wireless Systems: Research Trends and Issues” during 20-21 January 2012 at Bannari Amman Institute of Technology, Sathyamangalam.
- Organized ICMR Sponsored Two-day National Seminar on “Cancer classification using Micro Array Gene Expression Data” during 20-21st June 2012 at Bannari Amman Institute of Technology, Sathyamangalam.
- Organized DBT sponsored Two-day National Workshop on “Knowledge discovery in Microarray Gene expression data” during 19-20th October 2012 at Bannari Amman Institute of Technology, Sathyamangalam.
- Organized Two-day National level Hands-on Workshop on "Big data Aalytics and Hadoop Tools (BAHT)" during 17 - 18th October 2014 at Bannari Amman Institute of Technology, Sathyamangalam.
- Organized ISTE Sponsored Two-day National level Hands-on workshop on “Data warehousing with Informatica ETL Tool (DWIET)” during 19-20 September 2015 at Bannari Amman Institute of Technology, Sathyamangalam.
- Organized to Organize Two-day National level Hands-on Workshop on “Hadoop Ecosystem and Data Analysis Using R” during 06-07 January 2017 at Bannari Amman Institute of Technology, Sathyamangalam.
- Organized a Ninth National Conference on “Computing and Communication 2020 (NCCC “20)” on 06th March 2020 at Dr.Mahalingam College of Engineering and Technology, Pollachi.
- Organized a Two -day AICTE Sponsored International E-Conference on “Data Analytics, Intelligent Systems & Information Security (ICDIIS“2020)” during 11-12 December 2020 at Dr.Mahalingam College of Engineering and Technology, Pollachi.
- Organized one day workshop on “Extended Reality (XR)” on 10.09.2022 at Dr.Mahalingam College of Engineering and Technology, Pollachi.

- Organized more than 20 Events through Institutions Innovation Council (IIC) in Our Institute as a vice president/Convener.
- Organized a Two Days FDP on “Generative AI” at Dr.Mahalingam College of Engineering and Technology, Pollachi, during 21.12.2023 – 22.12.2023

#### 9. Online Courses

| S.No | Course title   | University | Date     |
|------|--|------------|----------|
| 1.   | Effective Engineering Teaching in Practice                               | NPTEL      | May 2018 |
| 2.   | Cloud Computing  | NPTEL      | May 2019 |
| 3.   | Python for Data Science  | NPTEL      | Dec 2019 |
| 4.   | Online course on Power BI Master Class - Dashboards and Power BI Service | Udemy      | May 2020 |
| 5.   | The Joy of Computing Using Python  | NPTEL      | Dec 2022 |
| 6.   | Demystifying Networks  | NPTEL      | Dec 2024 |
| 7.   | Teaching And Learning in Engineering (TALE)                              | NPTEL      | May 2025 |
| 8.   | Computer Networks And Internet Protocol                                  | NPTEL      | May 2025 |

#### 10. Patents filed/awarded

| Sl. No. | Title   | Application No. | Filed Date | Status    | Inventor(s) |
|---------|---|-----------------|------------|-----------|-------------|
| 1.      | An application program interface for gene expression data clustering  | 202041000403    | 05/01/2020 | Published | Pandi M     |
| 2.      | Hybrid Response and Traffic Control algorithm (HRTC) based detection control technique in denser IOT networks | 202041034060    | 08/08/2020 | Published | Pandi M     |
| 3.      | Coconut sorting machine and an artificial intelligence based method for evaluating the quality of coconuts.   | 202141043312A   | 24/09/2021 | Published | Pandi M     |
| 4.      | Deep learning techniques to assess the network security aspects.  | 20221001808     | 12/01/2022 | Published | Pandi M     |
| 5.      | Machine learning based hybrid module for predicting the crop yield depending on climatic and soil conditions. | 202221024377    | 25/04/2022 | Published | Pandi M     |
| 6.      | Automated salt harvesting device  | 202441021546A   | 21/03/2024 | Published | Pandi M     |

## **11. Membership in Professional societies**

- Life Member, Indian Society for Technical Education (ISTE), New Delhi
- Member of International Association of Engineers (IAENG)

## **12. Awards, Recognition & Achievements**

**Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)**

- Supervisor Recognition (Ref.No. 3340032) – Ph.D/M.S (By Research) Programme, Anna University, Chennai.
- DC Member for 08 Research Scholars.