

## PROFILE



**Name & Designation** : Dr. M. BALAMURUGAN  
Associate Professor  
Department of MCA

**Age & Date of Birth** : 42 Yrs. & 10-06-1983

**Address for Communication** : House No. 012, B Block  
SLV Suhas Celestia Apartment  
Abbigere  
Bengaluru-560090

**Contact Phone Number** : Mobile: 9655741471, 8870104173

**Email Id** : [tecbalamurugan@gmail.com](mailto:tecbalamurugan@gmail.com)

**Educational Qualification** : M.C.A., Ph. D

**Total Teaching Experiences** : 14 Years

### Academic Qualification

Sl. No	Course	Institution	Month and Year of Passing	% of Marks	Class Obtained
1.	S.S.L.C	Board of Secondary Education	March – 1998	86%	I Class
2.	H.Sc.,	Board of Higher Secondary Education	April – 2000	71%	I Class
3.	B.Sc., Computer Science	St. Joseph Arts and Science College, Cuddalore – 1.	April – 2004	65%	I Class
4.	M.C. A	Thangavelu Engineering College, Chennai – 97.	April – 2007	75.5%	I Class
5.	Ph. D	Tamil Nadu Open University, Chennai – 15.	May 2022	-	-
6.	Post Doctoral Researcher	Lincoln University College, Malaysia	Pursuing		

### Teaching Experience

S. No	Course	Institution	Duration	No. of Years
1.	(U.G) C. S & B. C. A	Shanmuga Industries Arts & Science, Tiruvannamalai.	2009 – 2011	2 Years 1 month
2.	(U.G) B. C. A	Immaculate College for Women, Viriyur.	2014 – 2022	7 Years 8 months
3.	Computer Science (UG)	Kristu Jayanti College (Autonomous), Bengaluru.	2022 – 2023	1 Year 8 months
4.	M.C.A	Acharya Institute of Graduate Studies, Bengaluru	Jan 2024	-

### Other Experiences

Post Held	Institution	Duration	No. of Years
Trainer	Private firms in Chennai	2011 – 2014	3 Years

### Subjects Handled

: Python, DBMS, Operating System, Software Engineering, Cloud Computing and Research Methodology.

### Seminars/Conferences/Workshop attended and Papers Presented

Sl. No	Title of the Event	Date	Participated/Presented	Place
1.	One day Seminar on Multimedia Authoring Tools	20 <sup>th</sup> Sept 2014	Participated	Immaculate College for Women, Viriyur
2.	One day Seminar on E- Governance	29 <sup>th</sup> Sept 2015	Participated	Tamil Nadu Open University, Chennai
3.	Two Days Workshop on Smart Keys of Information Technology (TechnoThirst'2016)	13 <sup>th</sup> & 14 <sup>th</sup> Jan 2016	Participated	Immaculate College for Women, Viriyur
4.	National Level Seminar on Big Data Analytics	25 <sup>th</sup> Jan 2017	Presented the Paper entitled "Impacts of Internet of Things in Life Science"	Immaculate College for Women, Viriyur
5.	Workshop on Cloud Computing (TechnoThirst'2017)	11 <sup>th</sup> Jan 2017	Participated	Immaculate College for Women, Viriyur

6.	State Level Conference on Latest Trends in Computing Technologies (InnovIT'17)	3 <sup>rd</sup> March 2017	Presented the Paper entitled "Data mining for Internet of Things"	Shanmuga Industries Arts & Science, Tiruvannamalai.
7.	National Conference on Emerging Trends in Computing Technologies (NCETCT'18)	23 <sup>rd</sup> Jan 2018	Presented the Paper entitled "A Study of Wi- Fi Access Data security in Internet of Things"	Immaculate College for Women, Viriyur
8.	National Workshop on AngularJS	10 <sup>th</sup> Feb 2018	Participated	Sacred Heart College Tiruppattur.
9.	4 <sup>th</sup> National Conference on Recent Innovations Management and Applications (RIETMA- 2018)	6 <sup>th</sup> & 7 <sup>th</sup> April 2018	Presented the Paper entitled "Smart Technology for Healthcare side using Internet of Things"	Priyadarshini Engineering College, Vaniyambadi.
10.	Workshop on Mobile Application Development (TechnoThirst'2018)	12 <sup>th</sup> Feb 2018	Participated	Immaculate College for Women, Viriyur
11.	Workshop on Introduction to R Language	16 <sup>th</sup> April 2018	Participated	Immaculate College for Women, Viriyur
12.	Three Days National Workshop on "Internet of Things for Real time Applications – Case Study Approach"	23 <sup>rd</sup> May 2018 – 25 <sup>th</sup> May 2018	Participated	St. Joseph's Institute of Technology, Chennai – 119.
13.	National Conference on Design Challenges in Machine Intelligence	1 <sup>st</sup> Sept 2018	Presented the Paper entitled "Internet of Things in HealthCare"	Auxilium College, Vellore.
14.	International Seminar on Emerging Trends in Computing Technologies	4 <sup>th</sup> Sept 2018	Presented the Paper entitled "Prediction and Detection of Accident in Roadways using Internet of Things"	E. S Arts & Science College, Villupuram
15.	International Seminar on Recent Innovations in Information Technology	11 <sup>th</sup> Sept 2018	Presented the Paper entitled "Internet of Things in Agriculture"	Morappur Kongu College of Arts & Science, Morappur

16.	Two Days Workshop on Revised NAAC Norms and Procedures	26 <sup>th</sup> & 27 <sup>th</sup> Oct 2018	Participated	Bharathiyar University, Coimbatore
17.	National Conference on Innovative in Advanced Computing (NCIAC'19)	29 <sup>th</sup> Jan 2019	Presented the Paper entitled "Different Techniques of Supervised Deep Learning Algorithms"	Immaculate College for Women, Viriyur
18.	National Conference on Recent Trends in Computer Technologies	31 <sup>st</sup> Jan 2019	Presented the Paper entitled "Deep Learning in Education"	Immaculate College for Women, Viriyur
19.	National Seminar on Research Article Writing and Plagiarism Checking	7 <sup>th</sup> Feb 2019	Participated	Tamil Nadu Open University, Chennai-15.
20.	National Workshop on NodeJS	23 <sup>rd</sup> Feb 2019	Participated	Sacred Heart College, Tiruppattur.
21.	State Level Workshop on Python (TechnoThirst'2019)	11 <sup>th</sup> April 2019	Participated	Immaculate College for Women, Viriyur
22.	One Day Workshop on Data Processing and Automation for NIRF	08 <sup>th</sup> Nov 2019	Participated	Don Bosco College, Yelahiri Hills
23.	Workshop on The Revised Accreditation Framework of NAAC	09 <sup>th</sup> Nov 2019	Participated	Auxilium College, Vellore.
24.	Two Days National Conference on Technology Enabled Learning: Challenges and Strategies	22 <sup>nd</sup> & 23 <sup>rd</sup> Nov 2019	Participated	Tamil Nadu Open University, Chennai-15.
25.	Workshop on Machine Learning (TechnoThirst'2020)	07 <sup>th</sup> Jan 2020	Participated	Immaculate College for Women, Viriyur.
26.	National Conference on Teaching, Learning and Evaluation: Changes and Challenges	30 <sup>th</sup> & 31 <sup>st</sup> Jan 2020	Participated	Auxilium College, Vellore
27.	3 <sup>rd</sup> National Conference on Advanced Computing (NCAC-2020)	14 <sup>th</sup> March 2020	Presented the Paper entitled "Fault Detection for complex process using Deep Learning"	Immaculate College for Women, Viriyur

28.	One Day International Webinar on Deep Learning in Cloud Computing Environment	29 <sup>th</sup> May 2020	Participated	Adhiparasakthi College of Arts & Science (Autonomous) Kalavai.
29.	Webinar on Augmented Reality: A Perspective View	07 <sup>th</sup> Aug 2020`	Participated	St. Joseph's College of Arts & Science (Autonomous) Cuddalore.
30.	National Webinar on Android Application Development	19 <sup>th</sup> Oct 2020	Participated	Immaculate College for Women, Viriyur & Pantech Solutions Pvt Ltd., Chennai
31.	First International Conference on Advances in Computational Science and Engineering (ICACSE 2020)	25 <sup>th</sup> & 26 <sup>th</sup> Dec 2020	Presented the Paper entitled "Dimensionally Improved Residual Neural Network to detect driver distraction in real time"	Cloudin Technologies, Coimbatore.
32.	UGC-CPE Sponsored International Workshop on E-Waste: Awareness and its Management	9 <sup>th</sup> Jan 2021	Participated	Science College, Nanded (M.S)
33.	5 <sup>th</sup> International Conference on Engineering, Technology and Science (ICETS'21)	26 <sup>th</sup> March 2021	Presented the Paper entitled "Traffic Crash Detection and Prediction in Transport Systems using Deep learning Algorithms"	Muthayammal College of Engineering, Rasipuram
34.	International Conference on Recent Trends in Computing, Communication and Information Technology	15 & 16 <sup>th</sup> Nov 2022	Presented the Paper entitled "A Study Analysis to Develop the Data security in Internet of Things"	Sri Ramakrishna College of Arts & Science, Coimbatore
35.	National Conference on Computational Intelligence (NCCI'23)	30 & 31 <sup>st</sup> Jan 2023	Presented the Paper entitled "Regularized Densely Connected Convolutional Network for Distracted Driver Detection"	Kristu Jayanti College, Bengaluru.

36.	National Conference on Recent Trends in Electronics, Mathematics and Statistics (NCRTEMS'23)	3 <sup>rd</sup> March 2023	Presented the Paper entitled "A Comprehensive Study on Detecting and Recognizing Emotions using Facial expressions"	Kristu Jayanti College, Bengaluru
37.	International Conference on Futuristic Digital Technologies for Sustainable Development (ICFDTSD-2023)	23 & 24 <sup>th</sup> March 2023	Presented the paper entitled "Lung Disease Diagnosis using DenseNet Architecture"	AMET University, Chennai
38.	International Conference on Information and Communication Technology - ICICT 23	14 & 15 <sup>th</sup> Sept 2023	Presented the paper entitled "Earlier Prognosis of Cardiovascular Diseases (CVD) Using Machine Learning Approaches"	Auxilium College (Autonomous), Vellore.
39.	National Seminar on Role of Technology and Media for A Smart and Sustainable Future	15 <sup>th</sup> March 2024	Presented the paper entitled "Comparative Analysis of Deep learning models for Flood Forecasting: Case study of Conv-GRU and STA-GRU Model"	Presidency College (Autonomous), Bengaluru – 24.
39.	International Conference on The Impact of AI Driven Decision Making and Agile Management Practices	3 & 4 <sup>th</sup> May 2024	Presented the paper entitled "An Experimental Study on Hyper Parameter Tuning for Plant leaf disease detection using Convolutional Neural Network "	Acharya Institute of Graduate Studies, Bengaluru-107
40.	12 <sup>th</sup> International Conference on Recent Trends in Computing (ICRTC 2024)	5 & 6 <sup>th</sup> July 2024	Presented the paper entitled "Trailblazing Strategy: Implementing IoT Powered Machine learning to identify harmful Potatoes"	SRM Institute of Science and Technology, Delhi NCR Campus, Ghaziabad
41	First International Conference on Advance Communication and Computational Devices – ICACCD 2024	4 & 5 <sup>th</sup> Oct 2024	Presented the paper entitled "A Novel Diabetes Prediction using Clustering Greedy Stepwise Search Algorithm with Deep learning Techniques"	Acharya Institute of Technology, Bengaluru – 107

42	International Conference on Computing Paradigms AI ML, Data science, IoT, Cyber security and Multimedia Technologies (ICCP-2024)	17 & 18 <sup>th</sup> Oct 2024	Presented the paper entitled "Lung Cancer Classification using DenseNet Multimodel Optimization Technique"	Acharya Institute of Technology, Bengaluru – 107
43	International Conference on Innovative Trends in Information and Communication Technology	21 <sup>st</sup> Nov 2024	Presented the paper entitled "Early Detection of Dementia using AI-Powered Analysis of MRI/CT Scans: A Deep learning Approach"	Auxilium College (Autonomous), Vellore
44	International Conference on Sustainability Innovation in Computing and Engineering (ICSICE 2024)	30 & 31 <sup>st</sup> Dec 2024	Presented the paper entitled "Integrating Deep learning models and Facial Recognition for Advanced Intelligent Surveillance Systems"	New Prince Shri Bhavani College of Engineering & Technology, Chennai
45	International Conference on Artificial Intelligence and Data Science – ICAD 2025	10 <sup>th</sup> Feb 2025	Presented the paper entitled "A Comprehensive Study on Creating LLM-Enhanced Spaces for Autistic Children"	Immaculate College for Women, Cuddalore
46.	Oracle Workshop on Innovation using Design Thinking in Education	11 <sup>th</sup> Feb 2025	Participated	Acharya Institute of Graduate Studies, Bengaluru
47.	First International Conference on Recent Interdisciplinary Trends in Engineering, Science and Industry 4.0 (RITESI 4.0)	26 <sup>th</sup> Mar ch 2025	Presented the paper entitled "Silkworm Cocoon Health Detection using Deep Learning Technique"	Reva University Bangalore
48.	First International Conference on Transformative Computing Technologies (ICTCT-2025)	19 <sup>th</sup> Sept 2025	Presented the paper entitled "Hybrid Video Enhancement Framework Using Generative Convolutional Vision Transformer"	Acharya Institute of Graduate Studies, Bengaluru
49.	4 <sup>th</sup> International Conference on Intelligent Computing, Information and Control Systems (ICOIICS 2025)	19 <sup>th</sup> Nov 2025	Presented the paper entitled "Dynamic Mimic based Moving Target Defense Mechanisms for Enhancing Security and Resilience in Mobile Ad Hoc Networks"	Nepal College of Information Technology, Nepal

50	IEEE Innovations in Machine, Engineering and Digital (IMED)	7 <sup>th</sup> Mar ch 2026	Presented the paper entitled “Enhanced Video Surveillance Framework Using Improved Faster R-CNN ResNet101 and LP-SIFT for Robust Object Detection and Tracking”	Jesselton University College, Malaysia
----	---	-----------------------------	---	--

#### Details of Paper Published

S. No	Title of the Paper	Name of the Publisher/Place	Year	Volume Number& Pages	ISSN/ISBN
1.	Transforming Patient diseases data using security devices access	International Journal of Engineering and Techniques (IJET)	2017	Volume - 3 Issue 6	ISSN: 2395 - 1303
2.	A study of Wi-Fi access data security in Internet of Things	International Journal of Engineering and Techniques (IJET)	2018	Special Issue	ISSN: 2395 - 1303
3.	Smart Technology for Healthcare side using Internet of Things	Priyadarshini Engineering College, Vaniyambadi.	2018	Pages:606-609	ISBN: 9788193802403
4.	Fault Prediction and Detection in Electricity line using Deep learning	Purakala (UGC CARE Journal)	2020	Volume – 31 Issue 18	ISSN: 0971 - 2143
5.	Regularized Densely Connected Convolutional Network for Effective Real-time distracted driver detection	Journal of Computational and Theoretical Nanoscience (JCTN) – (Scopus)	2021	Volume – 18 Pages: 502 - 508	ISSN: 1546-1955
6.	Dimensionally Improved Residual Neural Network to Detect Driver Distraction in Real	Journal of Physics: Conference Series – (Scopus)	2021	doi:10.1088/1742-6596/1964/4/042037	ISSN: 1742-6596
7.	Selection of Routing Protocol-Based QoS Improvement for Mobile Ad Hoc Network	EAI / Springer Innovations In Communication and Computing – (Scopus)	2022	Pages: 317 – 330	e-ISSN: 2522-8609

8.	Traffic Crash Detection and Prediction in Intelligent Transport system using optimal hybrid deep learning Algorithms	Indian Journal of Natural Sciences – <b>(WoS)</b>	2023	Pages: 53561 – 53569	e-ISSN: 0976-0997
9.	A Comprehensive Study on Detecting and Recognizing Emotions By Facial Expressions Using Machine Learning Techniques	Journal of Data Acquisition and Processing	2023	Pages: 1662 - 1668	e-ISSN: 1004-9037
10.	Development of Grey Wolf Optimized- Gradient Boosted Decision Tree Metamodel for Heart Disease Prediction	International Journal of Intelligent Systems and Applications in Engineering - <b>(Scopus- Q4)</b>	2023	Pages: 515 - 522	ISSN: 2147-6799
11.	Revolutionizing Magnetic Resonance Imaging Image Reconstruction: A Unified Approach Integrating Deep Residual Networks and Generative Adversarial Networks	International Journal of Advanced Computer Science and Applications - <b>(Scopus – Q3)</b>	2024	Pages: 420 - 433	ISSN: 2156-5570
12	Soil Aggregate Stability Prediction Using Hybrid Machine Learning Algorithms	Wiley Publishers <b>(Scopus)</b>	2024	Pages: 607- 629	ISBN: 978-1-394-23393-9
13	Lung Cancer Classification Using DenseNet Multi Model Optimization Techniques	Computer Science & Engineering: An International Journal (CSEIJ)	2025	Pages: 255 - 269	ISSN: 2231-329X
14	Hyperparameter Tuning for Plant Leaf Disease Detection Using Convolutional Neural Networks	SSRN Elsevier	2025	Pages: 1 - 9	ISSN: 1556-5068

15	Trailblazing Strategy: Implementing IoT Powered Machine learning to identify harmful Potatoes	Springer Nature - <b>(Scopus)</b>	2025	Pages: 1 - 14	ISBN: 978-981-97-8946-7_1
16.	Integrating Deep Learning Models and Facial Recognition for Advanced Intelligent Surveillance Systems	Atlantis Press <b>(Scopus)</b>	2025	Pages: 755-766	ISBN: 978-94-6463-718-2
17	Early Detection of Dementia using AI-Powered Analysis of MRI/CT scans: A Deep learning Approach	Journal of Emerging Technologies and Innovative Research (JETIR)	2025	Pages: 767-770	ISSN: 2349 – 5162
18	Dysgraphia Disorder Detection and Classification using Enhanced Adaptive Butterfly Optimization Algorithm	International Journal of Environmental Sciences (Scopus Q3)	2025	Pages: 1471 - 1483	ISSN: 2229 - 7359
19	Dynamic Mimic-based Moving Target Defense Mechanisms for Enhancing Security and Resilience in Mobile Ad Hoc Networks	IEEE Xplore	2026	Pages: 487 - 493	ISBN: 979-8-3315-9897-6
20	Deep learning-based data quality Assessment in Distributed Cloud-Native systems	International Journal of Advanced Research in Science, Communication and Technology	2026	Pages: 115-125	ISSN: 2581-9429

21.	A Deep Autoencoder-Driven Framework for Intelligent Anomaly Detection in Scalable Cloud-Native Environments	International Journal of Advanced Research in Science, Communication and Technology	2026	Pages: 227-235	ISSN: 2581-9429
22.	Hybrid Video Enhancement Framework Using Generative Convolutional Vision Transformer	IEEE Xplore	2026	Pages: 246-253	ISBN: 979-8-3315-9195-3
23.	Optimized Cloud Security using Time-oriented latency approximation-based data encryption with Levy-Flight Whale optimization	SN Computer Science (Q2)	2026		Paper accepted for publication
24	Enhanced Video Surveillance Framework Using Improved Faster R-CNN ResNet101 and LP-SIFT for Robust Object Detection and Tracking	IEEE Xplore	2026		Paper accepted for publication

**Conference/Seminar/ Workshop/Industrial Visit/Guest Lecture organized**

S. No	Level	Numbers	Convener/Organizing Committee Member /Co-ordinator	Place
1.	National Conference	03	Convener	Immaculate College for Women, Viriyur
2.	National Seminar	02	Organising Committee Member	Immaculate College for Women, Viriyur
3.	Workshop	05	Organizing Secretary	Immaculate College for Women, Viriyur
4.	Industrial Visit	03	Co-ordinator	Immaculate College for Women, Viriyur
5.	Guest Lecture	02	Organizing Secretary	Immaculate College for Women, Viriyur

6.	Guest Lecture/Alumni Talk	02	Organizing Committee Member	Kristu Jayanti College, Bengaluru
7.	Industry Mentorship Programme	01	Organizing Committee Member	Kristu Jayanti College, Bengaluru
8	Workshop	02	Coordinator	Acharya Institute of Graduate Studies, Bengaluru

**FDP/Refresher Courses/STTP Attended**

S. No	Date & organized by	Name of the Event	Title
1.	15.09.2017 - Immaculate College for Women, Viriyur	Refresher Course	Neuro Linguistic Program
2.	27.04.2020 – 02.05.2020 – St. Teresa’s Degree College for Women, Bengaluru	International FDP (Online)	Case Study Analysis in Teaching
3.	04.05.2020 - Vels Institute of Science, Technology and Advanced Studies, Chennai.	FDP (Online)	Machine Learning using Python
4.	04.05.2020 – 06.05.2020 – Jeppiaar Institute of Technology, Chennai	FDP (Online)	Robotics Process Automation
5.	08.05.2020 – 12.05.2020 – Universal Teachers Academy, Puducherry & Immaculate College for Women, Viriyur.	FDP (Online)	ICT Skills & Interactive E-Content Creation
6.	16.05.2020 – 22.05.2020 – Hindustan College of Arts and Science, Coimbatore.	International FDP (Online)	Impact of COVID -19 on Higher Education Institution’s Challenges & Responses
7.	28.05.2020 – 01.06.2020 Immaculate College for Women, Viriyur.	National FDP (Online)	Impact of Data in Information Technology and its Applications
8.	18. 01. 2021 – 23. 01. 2021 MVSR Engineering College, Hyderabad	<b>AICTE Sponsored STTP (Online)</b>	Foundations of Deep Neural Network for Image/ Video Applications with hands-on using Keras (Phase II)
9.	18.02.2021 – SRM Institute of Science & Technology, Ramapuram Campus	FDP (Online)	Challenges and Recent Research Trends in Information Science

10.	22. 4. 2022 – 4. 5. 2022 – Teaching Learning Centre, Ramanujan College, University of Delhi	<b>Refresher Course</b> (Online)	Advanced Research Methodology
11.	23.5.2022 – 28.5.2022 – Library and Information Centre, Kristu Jayanti College (Autonomous), Bengaluru	FDP (Online)	Unlocking the Power of Library for Research
12.	3.6.2022 – 10.6.2022 - Kristu Jayanti College (Autonomous), Bengaluru	National FDP (Online)	Information Retrieval and its Research Trends
13.	13.3.2023 – 27.3.2023 – Teaching Learning Centre, Ramanujan College, University of Delhi	<b>Refresher Course</b> (Online)	Computer Science
14.	12.6.2023 – 16.6.2023 – Kristu Jayanti College (Autonomous), Bengaluru	FDP	Designing Internet of Things (IoT) Applications
15.	16.6.2023 – 24.6.2023 – SRM Institute of Science and Technology, Chennai.	FDP (Online)	Cyber Security and Hacking
16.	6.7.2023 – 13.7.2023 - Kristu Jayanti College (Autonomous), Bengaluru	FDP	Implications of changing Paradigms of Higher Education in the Context of NEP 2020
17	15.4.2024 – 20.4.2024 – Kongu Engineering College & University of Technology and Applied Sciences-Ibri, Oman	International FDP	Deep learning Techniques for Social Media Analytics
18.	21.5.2024 – 25.5.2024 – Shri Vishnu Engineering College for Women, Bhimavaram, Andhra Pradesh	National FDP	Generative AI Models and Applications of Machine learning
19.	29.7.2024 – 4.8.2024 – Hindustan College of Arts and Science, Coimbatore	International FDP	Implications of Emerging Computing Technologies
20.	16.9.2024 – 20.9.2024 – NITTTR, Chandigarh	<b>AICTE Recognized FDP</b>	Cryptography and Network Security
21.	23.9.2024 – 27.9.2024 - Sharda University, Greater Noida, U. P	International FDP	Recent Research Trends in Computer Science and Information Technology
22.	8.10.2024 – 10.10.2024 – AIGS	FDP	Research Methodology and Academic Writing

23.	21.10.2024 – 25.10.2024 – Amity Institute of Information Technology, Mumbai	FDP	Industry Best Practices in Information Technology
24.	4.11.2024 – 9.11.2024 – St. Joseph's University, Bangalore	<b>ATAL FDP</b>	Artificial Intelligence Solutions in Healthcare
25.	4.11.2024 – 9.11.2024 – Sri S. Ramasamy Naidu College, Sattur	Self-Paced FDP	AI-Driven Research Excellence
26.	26.12.2024 – 30. 12. 2024 – Auxilium College (Autonomous), Vellore	National FDP (Online)	Beyond Boundaries: Driving Innovation in Research
27.	20.1.2025 – 24.1.2025 – SND College of Engineering and Research Centre, Babhulgaon, Yeola, Maharashtra	National FDP (Online)	Innovative Teaching Learning Practices for Engineering Education
28.	10. 2. 2025 – 14. 2. 2025 - Vishwakarma Institute of Information Technology, Pune	FDP (Online)	AI for Healthcare: Innovations, Applications and Future Trends
29.	10. 3. 2025 – 15. 3. 2025 – Hindustan College of Engineering and Technology, Coimbatore	International FDP (Online)	Empowering Advancement in AI for Education, Healthcare and Finance
30.	28.4.2025 – 3. 5. 2025 – VLB Janakiammal College of Arts & Science, Coimbatore	International FDP (Online)	Effective Teaching Pedagogies and Innovative Research Methodologies
31.	19.5.2025 – 24.5.2025 – Chandigarh University, Punjab	FDP (Online)	Smart Sensors, IOT and AI in Agriculture: Innovations for Sustainable Farming

## **Research Experiences**

### **1. Patent Publications**

Title - Machine Learning-Based Nutrition Monitoring and Health Awareness System based on Crowd-Sourced Food images

Published Date – 18/08/2023

Title - Adaptive Federated Learning Framework For Privacy-Preserving AI in Cloud Environments

Published Date – 09/08/2024

Title - Method for improvising Hyper Parameters for Plant Leaf Disease Detection Using CNN

Published Date – 02/01/2025 (RQ Filed)

## **2. Text Book**

Title – Principles of Artificial Neural Network

Publisher – Alpha International Publications

ISBN: 9789357621649

## **3. Journal Reviewer**

Name – International Journal of Research and Analytical Reviews (IJRAR)

Reviewer Id – 119882

Year – 2025

## **4. Journal Reviewer**

Name – Journal of Emerging Technologies and Innovative Research (JETIR)

Reviewer Id: 224029

Year – 2025

## **5. Editor**

Title of the Work – Proceedings of the National Conference on Advanced Computing (NCAC'2020)

ISBN – 9789391286224

Publisher – Mayas Publications

## **Awards & Recognitions**

1. **National Academic Excellence Award 2024** – by the International Institute of Organised Research on the occasion of National Science Day Conclave 2024.

2. **Best Paper Runner Award** – International Conference on The Impact of AI Driven Decision Making and Agile Management Practices 2024
3. **Microsoft Educator Academy Trophy** – by Microsoft 2024
4. **Session Chair** for the National Conference on Computational Intelligence (NCCI'23) conducted by Kristu Jayanti College (Autonomous), Bengaluru in 2023.
5. **Resource Person** for Virtual Seminar on Transformative Impact on Artificial Intelligence in Health Care, conducted by National College (Autonomous), Trichy in 2024.
6. **Resource Person** for 5-Day Webinar on Data Analysis using Python conducted by ADM College for Women, Nagapattinam under DBT Star College Scheme in 2025
7. **Resource Person** for Two Day National Workshop on Advancement of Gen AI Era: Tools and Opportunities conducted by STET Women's College, Mannargudi in 2025
8. **Conference Reviewer** for 3<sup>rd</sup> IEEE International Conference on Knowledge Engineering and Communication Systems held on April 28 & 29<sup>th</sup> 2025, SJC Institute of Technology, Bengaluru
9. **Conference Reviewer** for the International Conference on Information Technology, Civil Innovation, Science and Management held on June 2025, KSR College of Engineering, Namakkal
10. **Best Researcher Award 2025** by National Scientific Research Forum (NSRF) on July 2025
11. **Editorial Board Member for the** Journals of Blue Eyes Intelligence Engineering and Sciences Publication

#### **Membership & Contributions**

<b>S. No</b>	<b>Other Services</b>	<b>Year</b>	<b>Place</b>
1.	Member, Examiner, Central Valuation	2017-2022	Thiruvalluvar University
2.	IQAC Member	2018 – 2021	Immaculate College for Women
3.	President, Department Association	2017 – 2020	Immaculate College for Women
4.	In-charge, Placement Cell	2017 – 2020	Immaculate College for Women
5.	Co-ordinator, Current Affairs Consolidation Committee	2022-2023	Kristu Jayanti College Bengaluru
6.	Department R & D Co-ordinator	2025	Acharya Institute of Graduate Studies Bengaluru
7.	Infosys Springboard SPOC	2026	Acharya Institute of Graduate Studies Bengaluru
8.	Ethical Review Co-ordinator	2026	Acharya Institute of Graduate Studies Bengaluru

Membership in Professional Bodies			
1.	Annual Member (ID:1983579907)	2020	Computer Science Teacher Association (CSTA)
2.	Life Member (ID: 26090)	2020	International Association of Engineers (IAENG)
3.	Member (ID: SM51964208)	2020	Institute for Engineering Research and Publication (IFERP)
4.	Basic Member	2022	Internet Society
5.	Life Member (ID: LM 141598)	2024	Indian Society for Technical Education (ISTE)
6.	AICTSD/PROFESSOR/08322	2024	All India Council for Technical Skill Development (AICTSD)
7.	Professional Member (ID: 2453626)	2025	Association for Computing Machinery (ACM India)

### Licenses and Certifications

1. **NPTEL+** Workshop on Forecasting using Machine learning Tools – Issued June 2025.
2. **NPTEL+** Workshop on Forecasting using Introduction to Data Engineering using Azure – Issued April 2025.
3. **NPTEL+** Workshop on Unboxing Generative AI with LLM: A Walk-through of different AI Models and Usage of LLM – Issued July 2024.
4. **ICSSR Sponsored** Ten days Online Certificate Course on Research Methodology organized by Sardar Patel University, Gujarat – March 2024
5. **NPTEL+** Workshop on Fundamentals of Natural Language Processing using Azure – Issued April 2024
6. **NPTEL Mentor** certificate for DBMS Course – Dec 2023
7. Appreciation Certificate of SuperHero for Children by **Bal Raksha Bharat**, Government of India.
8. **NPTEL+** Workshop on Leveraging Generative AI for Teaching Programming Courses – Issued June 2023.
9. **NPTEL+** Workshop on Cybersecurity and its role in Healthcare today – Issued June 2023.

10. Online Certificate Course on State Machines in Studio – **Ui Path** – Issued Nov 2023.

11. Online Certificate Course on Introduction to R Programming – **Udemy** – Issued Sept 2020.

### **Academic Social Networks**

**i. Scopus Author id:** 57216032867

**ii. Vidwan id**

<https://vidwan.inflibnet.ac.in/profile/290434>

**iii. ORCID id:**

0000-0001-5966-0669

**iv. Research Gate**

<https://www.researchgate.net/profile/Balamurugan-Mani-3>

**v. Google Scholar id**

<https://scholar.google.com/citations?hl=en&user=c7ScRjAAAAAJ>

**vi. GitHub**

<https://github.com/Balamurugan-Mani>

**vii. ABCD index Reviewer**

<https://abcdindex.com/reviewer/dr-m-balamurugan-000-515-173>

**viii. Google Site**

<https://sites.google.com/view/bala-icw>

**ix. Wakelet**

<https://wakelet.com/@DrBalamurugan>

**x. LinkedIn**

<https://www.linkedin.com/in/dr-balamurugan-m/>

**xi. Microsoft Learn**

<https://learn.microsoft.com/en-us/users/balamuruganm-2540/>

**xii. E-Content**

<https://profbalamurugan.edublogs.org/>

**Declaration**

I hereby declare that the above information furnished by me is true to the best of my knowledge.

Yours Sincerely,

**Place:** Bengaluru

**Date:** 11/4/2026

[Dr. M. Balamurugan]