

PROFILE

PERSONAL INFORMATION:

Name: Dr.P.Pabitha Muthu., M.E., Ph.D.

Designation: Assistant Professor

Department: Computer Science and Engineering

Institution: Sethu Institute of Technology, Pullor, Kariapatti



ACADEMIC QUALIFICATIONS:

DEGREE	UNIVERSITY / BOARD	YEAR OF PASSING	NAME OF THE INSTIUTION	AGGREGATE	CLASS
Ph.D	Anna University	2026	Sethu Institute of Technology	-	-
M.E [CSE] (Part Time)	Anna University, Chennai.	July 2014	Pandian Saraswathi Yadav Engineering College, Madurai.	7.8CGPA	First Class
B.E [CSE]	Anna University, Chennai.	Apr 2009	Pandian Saraswathi Yadav Engineering College, Madurai.	77%	First Class
HSC	State Board	Apr 2005	Nirmala Girls Higher Secondary School, Madurai.	93%	First Class
SSLC	State Board	Apr 2003	Nirmala Girls Higher Secondary School, Madurai.	76%	First Class

PROFESSIONAL WORK EXPERIENCE:

S.No	Name of the Institute	Designation	From	To	Year of Experience
1.	Pandian SaraswathiYadav Engineering College, Sivagangai.	Assistant Professor	05-08-2010	Till Date	7.4Yrs
2.	Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar	Assistant Professor	03.01.2018	Till Now	8.2Yrs

AREA OF SPECIALIZATION:

Satellite Image Processing, Machine Learning, Wireless Sensor Networks, Remote Sensing, Neural Networks, Internet of Things

SUBJECTS HANDLED:

1. Programming and Data Structures
2. Design and Analysis of Algorithm
3. Computer Networks
4. Object Oriented Programming Languages
5. Fundamentals of Computer Programming
6. Cryptography and Network Security
7. Professional Ethics and human values
8. E learning Techniques
9. Total Quality Management
10. Distributed Systems
11. Computer Graphics
12. Information Retrieval
13. Problem solving and Python programming
14. Advanced Operating Systems
15. Network and Information Security
16. Machine Learning Techniques
17. Wireless Network Security
18. Operating Systems
19. Digital Marketing

20. Data Warehousing
21. Full Stack Web Development
22. IOT Design
23. Big Data Analytics

PAPERS PRESENTED IN NATIONAL / INTERNATIONAL CONFERENCE:

1. A Paper entitled “Protecting Sensitive Labels in Social Network Data Anonymization” presented in an International conference conducted by Pandian Saraswathi Yadav Engineering College, Sivaganga, India.
2. A Paper entitled “Optimal Routing in Mobile Adhoc Networks Using Car Algorithm” presented in an International conference conducted by Syed Ammal Engineering College Ramanathapuram, India on May 14- 16, 2015.
3. A Paper entitled “Enhanced Individual Data Isolation Using Gaussian Noise Addition in Varying Levels of Trust” presented in an International conference conducted by Anna University, Tirunelveli., India.
4. A Paper entitled “Classification techniques used in remote sensing satellite imageries: A survey” published in the National Journal of Multidisciplinary Research and Development, ISSN: 2455-9040; Impact Factor: RJIF 5.22, Volume 4; Issue 6, Page no: 24-28
5. A Paper entitled “Protecting Sensitive Labels in Social Network Data Anonymization” Presented in an International conference conducted by Pandian Saraswathi Yadav Engineering College, Sivaganga, India.
6. A Paper entitled “Optimal Routing in Mobile Adhoc Networks Using Car Algorithm” Presented in an International conference conducted by Syed Ammal Engineering College, Ramanathapuram, India on May 14- 16, 2015.
7. A Paper entitled “Enhanced Individual Data Isolation Using Gaussian Noise Addition in Varying Levels of Trust” presented in an International conference conducted by Anna University, Tirunelveli., India.
8. A paper entitled “Survey on land use classification of Remote sensing Satellite Imaginaries” presented in Presented in an International conference conducted by Sethu Institute of Technology, Virudhunagar, India
9. A Paper entitled “IOT based air pollution monitoring system ” Presented in National conference conducted by Mepcho Schlenk Engineering College, Sivakasi, India

10. A Paper entitled "Fire Detection System Using Computer Vision, International Conference on Recent Innovations in Information and Computing Technologies RIICT2022, 22.07.2022 & 23.07.22 at Sethu Institute of Technology, India.
11. A Paper entitled "Weed Detection using Image Processing" presented in the IX National Conference on Hi-Tech trends in Engineering Computational Technologies "SITCON 2022
12. A Paper entitled "Bionic Arm" presented in the IX National Conference on Hi-Tech trends in Engineering Computational Technologies "SITCON 2023"
13. A paper entitled "A texture based skin lesion Segmentation from Digital images with ANN & CNN" International Conference On Environmental Development Using Computer Science (ICECS'2024), AAA College of Engineering and Technology, 11.01.24 & 12.01 24
14. A paper entitled "Citizen Cares Hub" International Conference on Recent Innovations in Information and Computing Technologies RIICT'24 at Sethu Institute of Technology on 5.4.24
15. A Paper entitled "BRAIN TUMOR DETECTION FROM MRI IMAGES USING CNN AND TRANSFER LEARNING" in the National Conference on Machine - Human Collaboration NCMHC-2025 at National Institute of Technology, Puducherry on 27.2.25 and 28.2.25

FDP / WORKSHOP / SEMINARS ATTENDED:

1. Two days Faculty Development Programme on "Semantic Web" at AlagappaChettiar College of Engineering & Technology, Karaikudi.
2. Two days' workshop on "Building Applications on Cloud" at Syed Ammal Engineering College, Ramanathapuram.
3. Two days workshop on "Python programming" at K.L.N. College of Engineering, Madurai
4. Participated in the NPTEL Workshop conducted by IIT Madras at Thiagarajar College of Engineering, Madurai
5. Participated in the Seminar on "Book Writing" Organized by Faculty Development Cell at Sethu Institute of Technology
6. Participated in the workshop on "Pedagogy for Outcome based Education" Organized by Faculty Development Cell at Sethu Institute of Technology
7. Participated in AICTE- QIP sponsored One Week short term course on "Sensor Interfacing for IOT" organized by Thiagarajar College of Engineering, Madurai
8. Participated in the Deep Dive Faculty Enablement Program on Foundation Program 5.0 scheduled from 23rd April to 27th April 2018 at Rajalakshmi Engineering College, Chennai.
9. Participated in the Python Workshop Organized by ICT at IIT, Bombay.

10. Participated in the FDP on Artificial Intelligence at “Networkz Systems” Madurai
11. Participated in the NAAC sponsored National Level Seminar on “ Revised NAAC framework for quality Enhancement in Higher Education Institutions”
12. Participated in AICTE ATAL Online FDP on “Cyber Security” from 18.5.20 to 22.5.20
13. Participated in AICTE ATAL Online FDP on “Framework for Online Assessment” from 16.08.2021 to 20.08.2021 at National Institute of Technical Teachers Training & Research.
14. Participated in the DRDO Sponsored Seminar on” Smart Military Base Technology Challenges and Innovations Organized by Sethu Institute of Technology
15. Participated in the FDP on “ Full Stack Web Development” Organized by Kamaraj College of Engineering, Virudhunagar
16. Participated in the”Pitch for the Planet” contest during the Expo Carbon Zero Challenge Organized by IIT Madras
17. Participated the two days FDP on “Global race for AI Dominance” Organized by Sri Krishna College of Engineering and Technology.
18. Participated the five days Online FDP on the theme” Inculcating Universal Human Values in Technical Education” from 7.10.24 to 11.10.24
19. Participated two days International Seminar on” Digital Health” organized by Sethu research Forum on 22.1.25 and 23.1.25
20. Participated two days Workshop on ”Drone Assembly” conducted by Veronautz Technologies as a part of GYANITH 2025 organized by NIT, Puducherry from 27.2.25 to 28.2.25
21. Participated the five days Offline FDP on the theme”Generative AI from fundamentals to Agentic Systems and Deployment” from 13.10.25 to 17.10.25
22. Participated the five days Offline FDP on the theme” Inculcating Universal Human Values in Technical Education” from 18.11.25 to 22.11.25

AWARDS & APPRECIATIONS:

1. Awarded **an Elite certification** for Designing Learner Centric MOOC by NPTEL
2. Received the **Best Paper Award** in the International Conference on Environmental Development Using Computer Science organized by AAA College of Engineering and Technology.
3. Received the **Reviewer Certificate** in the International Conference On Recent Innovations in Computing Technologies organized by Sethu Institute of Technology

4. Received the **Reviewer Certificate** in the IEEE International Conference in Recent Advances in Information Technology in Sustainable Development organized by Manipal University of Technology
5. Received the **Reviewer Certificate** in the IEEE International Conference on Artificial Intelligence and Data Engineering (AIDE - 2025) organized by NMAM Institute of Technology, Nitte.
6. Received the **Reviewer Certificate in the SCI indexed journal named “ International Journal of Science and Technology”**

RESOURCE PERSON:

1. Act as a **resource person** for the two-day state-level workshop on "Crafting Machine Learning Models using Python," organized by the Computer Science Department of Madurai Sivakasi Nadars Pioneer Meenakshi Women's College.
2. Act as **Judge** in Mini Technovision 2K25: Intra College Project Competition organized by Department of Computer Science and Engineering in Kamaraj College of Engineering and Technology, Virudhunagar.

BOOKS PUBLISHED:

1. Published a book on “**Introduction to Network Simulator Using Riverbed**”, in Newsman Publications, ISBN No 978-81-930476-1-3, January 2018.

PATENTS PUBLISHED:

1. Published Patent on “**AI Powered Real Time Cyber Attack Detection in IOT Networks**”
2. Published Patent on “**Development of Heart Beat and Temperature and Temperature Measuring System for Remote Health Nursing during Pandemic**” (COVID -19)

JOURNAL PUBLISHED:

1. A Paper entitled “Classification techniques used in remote sensing satellite imageries: A Survey” published in the **National Journal of Multidisciplinary Research and Development**, ISSN: 2455-9040; Impact Factor: RJIF 5.22, Volume 4; Issue 4, Page no: 24-28

2. A paper entitled “Convolutional Neural Network Approach for White Blood Cells Classification” published in the **International Journal of Scientific Research in Engineering and Management (IJSREM)** on Volume 08, Issue 04 April 2024.
3. A paper entitled” Optimized deep learning based classification and prediction of land use/land cover changes from satellite images” Published in **Signal ,image and Video Processing**, Vol:19,Issue:5;Page no:419,Impact factor:2.0
4. A paper entitled “Deep Learning-Based Hybrid Multivariate Improved ResNet and U-NetScheme for Satellite Image Classification to Detect Targeted Region” published in **Applied Computational Electromagnetic Society**, Vol:40, Issue:8, Page No:679 , Impact Factor:0.6

FUNDED PROJECTS:

1. Received the fund of **Rs. 5, 00,000** from NIAM for the project”**Automatic Guava Grading Machine using IOT**”
2. Received the fund of **Rs. 5, 00,000** from NAVIC for the project “**Automatic Eco-Friendly Bagging Machine for Oyster Mushroom Cultivation**”
3. Received the fund of **Rs.15, 00, 000** from MSME 3.0 for the project “**WIFI Based Sewer Clogging Prediction System Using IOT**”

COURSES COMPLETED:

1. “Designing Learner Centric MOOCs “ in NPTEL
2. “Tensor Flow for Deep Learning using Python” in UDEMY
- 3.”Mongo DB Aggregation” in Infosys SpringBoard
4. “Data Science Foundation Certification “in Infosys SpringBoard