

Faculty Profile

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Research Interests:

Machine Learning, Deep Learning, Artificial Intelligence, Image Processing

Educational Qualification:

Degree	Branch	Name of the Institution/University	Year of Passing
PhD	ICE	Anna University, Chennai	2025
M.E	CSE	Thiagarajar College of Engineering, Madurai	2015
B.E	CSE	Kamaraj College of Engineering and Technology, Virudhunagar.	2013

Professional Experience:

Designation	Institution	Period
Assistant Professor (Senior Grade)	National Engineering College, Kovilpatti	29-04-2025 to present
Assistant Professor	National Engineering College, Kovilpatti	07-04-2022 to 28-04-2025
Assistant Professor	Sri Vidya College of Engineering and Technology, Virudhunagar	03-06-2019 to 06-04-2022

No. of years of Teaching Experience: 7+years

List of Scopus Index Publications:

S.No	Title of Paper	Name of the Conference	Year of publication
1	MockMate: Leveraging AI for Adaptive and Realistic Interview Practice	International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN)	2026
2	Vayazh - Leveraging AI and NLP to Empower Farmers with Real-Time Agricultural Insights	International Conference on Communication and Electronics Systems (ICCES)	2026
3	Dual ML Approach for Myopia Prediction in Children Using Bayesian Risk Assessment and Genomic Classification	International Conference on Robotics and Mechatronics (ICRM)	2026
4	Self-Adaptive Digital Twins for Patient Health Dynamics: A Learning-Driven Simulation Framework	6th International Conference on Electronics and Sustainable Communication Systems. ICESC	2025
5	Revolutionizing Breast Cancer Detection: Leveraging EfficientNet B3 for Accuracy and Scalability	3rd International Conference on Electronics and Renewable Systems. ICEARS	2025
6	Image to text conversion using Deep Learning Algorithms: Survey	10th International Conference on Advanced Computing and Communication Systems ICACCS	2024
7	Image Captioning based on Encoder Decoder Architecture	IEEE International Conference on Intelligent Techniques in Control Optimization and Signal Processing. INCOS	2024
8	Smart Entry System for College Using IoT and RFID	International Conference on Energy, Materials and Communication Engineering. ICEMCE	2024
9	An Efficient technique for Disease Prediction using Enhanced Machine Learning Algorithms for Categorical Medical Dataset	Information Technology and Control	2021
10	Framework for advanced Weather Forecasting Techniques using DMaaS in Cloud	International Conference on Current Trends Towards Converging Technologies. ICCTCT	2018
11	Prediction of Time Series using SVM and ARMAX in International Journal of Applied Engineering Research	International Journal of Applied Engineering Research	2015

List of International Conferences:

S. No	Title of Paper	Name of the Conference	Year of publication
1	Under water Object Prediction Using Sonar Waves	International Conference on recent trends in Management, Engineering and Technology - ICMET 2023	2023

2	Muson-Emotion Based Music Recommended System	International Conference on Advanced Materials and Technology for Industry 4.0 – ICAMT4.0	2023
3	Automated Canteen Management System	International Conference on Advanced Materials and Technology for Industry 4.0 – ICAMT4.0	2023
4	A Survey on Distance Measure of Supervised and Unsupervised learning: Categorical Data	International Conference on Current Trends towards Converging Technologies	2018
5	Effective image retrieval based on content by integrating wavelets with clusters	International Conference on Intelligent systems and control	2015

Technical Reviewer in reputed journals:

S. No	Type	Journal	Publication
1	SCI Journal	Automated Software Engineering	Springer Nature
2	SCI Journal	Knowledge and Information Systems	Springer Nature

Real time projects implemented:

S. No	Project Title	Deployed for	Duration	Description
1	AI Chatbot	Thoothukudi District Police	April to July 2025	Guided students in designing and deploying. Also received official recognition from Superintendent of Police for valuable contribution to the people.
2	Parking Dashboard	Thoothukudi District Police	April to July 2025	Guided students in designing and deploying. Also received official recognition from Superintendent of Police for valuable contribution to the people.
3	Project Guardian–A Missing Child Finding Platform	Thoothukudi District Police	September to November 2025	A web-based tool designed to quickly identify and track missing children. Also received official recognition from Superintendent of Police for valuable contribution to the people.
4	Crime Flow Analyzer	Thoothukudi District Police	September to November 2025	Guided students in designing and deploying. Also received official recognition from Superintendent of Police for valuable contribution to the people.
5	Case Maiyam	Thoothukudi District Police	September to November 2025	A web-based platform designed to manage and monitor police case records in real time. Also received official recognition from Superintendent of Police for valuable contribution to the people.

6	Path AI	Thoothukudi District Police	April 1 to April 30	Pathai is an AI-powered pilgrim safety app offering real-time weather updates, police alerts, crowd monitoring, emergency assistance, smart navigation, and Tamil & English language support to ensure a safe and seamless pilgrimage experience.
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Mini Projects:

S. No	Project Topic	Duration
1	IOT-Based Accident Detection and Rescue System	January to May 2023
2	Smart Entry System for college using IOT and RFID	January to May 2023

Workshop Attended:

S. No	Topic	Institution	Course Detail	Date
1	Seed Grant Proposal Writing	National Engineering College	15 days research proposal development programme conducted by National Engineering College delivered by Dr.Prabu Mohandas Dept of CSE, NIT-Calicut	24-08.26 to 26.08.26
2	Deep Learning for Generative AI: Theory & practice	IIITDM, Kanchipuram	One week workshop conducted by Indian Institute of Information Technology, Design and Manufacturing (IIITDM) Kancheepuram,	01-12-2025 to 05-12-2025
3	AI/ML for Geodata analysis	IIRS, ISRO-Dehradun	IIRS EDUSAT Outreach 144 th IIRS Outreach Programme organized by ISRO	19-08-2024 to 23-08-2024
4	Writing proposal for Funded Project	Ethiraj College for Women, Chennai	National Workshop Conducted by Global Institute of Statistical Solutions (GISS)	14-04-2024
5	Transfer Learning for Deployable AI: Techniques and Apps	Indian Institute of Information and Technology, Trichy	SERB sponsored National Workshop	11-12-2023 to 15-12-2023
6	Question Paper Setting	National Engineering College	Workshop delivered by Dr.P.Jeyarekha (Head & Prof.), BMS College of Engineering, Bangalore	27-11-2023 & 28-11-2023
7	Cyber Security	Thiagarajar College of Engineering	TEQIP sponsored workshop	26-03-2014
8	BugDeBug	Mepco Schlenck Engineering College	Software Testing Workshop	17-09-2011
9	Entrepreneurship Development Programme	Kamaraj College of Engineering and Technology	Conducted by Boopathi Educational & Social Trust	11-08-2010 & 12-08-2010
10	Fundamentals of Telecom	Bharat Sanchar Nigam Limited, Virudhunagar	Inplant Training	06-06-2011 to 10-06-2011

Faculty Development Program attended:

S. No	Topic	Institution	Date
1	Forward and Reverse Engineering Process	Dept. of AI & DS, National Engineering College	26-04-2025
2	Medical Signal and Image Processing in Healthcare Services (ATAL FDP)	AMC Engineering College, Bengaluru.	17-02-2025 to 22-02-2025
3	Generative and ethical AI: Techniques and Applications with hands-on	National Institute of Technology Tiruchirappalli	20-01-2025 to 25-02-2025
4	Embedded systems for automated real time projects	Dept. of AI & DS, National Engineering College	10-01-2025
5	FDP on Innovative Teaching Strategies with AI and Digital Tools	Organized by Dept. of Research & Publications, A2Z Edu- Scaleup	30-12-2024
6	FDP on Deep Learning	Organized by Skill Dzire in collaboration with AICTE	01-09-2024 to 01-10-2024
7	Deep Learning-An Industrial Approach and hands on practice	Dept. of AI & DS, National Engineering College	16-08-2024 to 17-08-2024
8	Building Advanced Data Analytics Applications with Cloud	Edunet Foundation (AICTE Sponsored 5 days Training Programme)	08-01-2024 to 12-01-2024
9	Compiler Design	National Engineering College, Kovilpatti	31-07-2023 to 04-08-2023
10	Python Programming–A Practical Approach	E&ICT Academy, IIT Kanpur	26-12-2022
11	Program on Data Structures	Velammal Engineering College	25-05-2020 to 29-05-2020
12	Artificial Intelligence and Deep Learning	National Engineering College (Conducted Bennett University)	28-12-2018 to 30-12-2018
13	Big Data Analytics	Kongu Engineering College (DST Sponsored 10 days Training Programme)	06-06-2016 to 17-06-2016

Organized Faculty Development Programme(funded):

S. No	Title	Event Type	Role	Duration of the Program	Amount Sanctioned
1	Next Gen Automation: Design & Integration of Intelligent Workflows with n8n	IEEE Sponsored Faculty Development Programme	Program Coordinator	06-07-2026 to 10-07-2026	Rs.50000

Courses/Seminar/Webinar/Workshop attended:

S. No	Topic	Institution	Duration
1	Machine Learning using Python	National Institute of Electronics and Information Technology	11-02-2026 to 14-02-2026
2	E-Studio digital learning programme	Lecture given by Prof.R.Sarathy, IIT Madras	21-08-2026
3	Sponsored/Seed Grant Proposal Writing	National Engineering College	21-02-2026
4	Machine Learning using Python	NIELIT	10-02-2026 to 15-02-2026
5	Core Training Programme on Object Oriented Analytics	National Engineering College	23-08-2025

6	Python Foundation Certification	Infosys Springboard	29-08-2024
7	Basics of Python	Infosys Springboard	28-08-2024
8	Programming Fundamentals using Python – Part 1	Infosys Springboard	19-09-2024
9	Programming Fundamentals using Python - Part 2	Infosys Springboard	28-09-2024
10	Core Training at Data Structures and Algorithms	Dr.Meghana, IITM Chennai	17-06-2024
11	Data Science Boot Camp	Offered by Learn Square Technologies	12-06-2024 to 14-06-2024
12	Infosys SB Expert Sessions (Data Structures)	Infosys Springboard	24-06-2024 to 28-06-2024
13	Instructional Design and Delivery Systems	Conducted by NITTTR, Chennai	16-05-2024 to 18-05-2024
14	Digital and AI Tools in Education	Dynamic Minds Group (Google)	14-04-2024
15	Digital and AI Tools in Education	Dynamic Minds Group (Google)	05-02-2024
16	Digital and AI Tools in Education	Dynamic Minds Group (Google)	05-01-2024
17	State Level webinar on “How to face viva voce Examinations effectively”	St.John’s College of Education, Tirunelveli	19-08-2023
18	IEEE: Enhancing Your Project Work and Research (Awareness Programme about IEEE Xplore and EBSCO eBooks)	National Engineering College	26-07-2023
19	Stochastic Approximation Algorithms-IARCS sponsored Instructional Course	National Engineering College	27-04-2023 to 28-04-2023
20	Design Thinking Process	National Engineering College	July 2022
21	Python Fundamentals for beginners	Great Learning	February 2022
22	NPTEL-Introduction to Research	Indian Institute of Technology, Madras	January 2016
23	Stochastic Approximation Algorithms-IARCS sponsored Instructional Course	National Engineering College	27-04-2023 to 28-04-2023
24	Design Thinking Process – Short Term Course	National Engineering College	July 2022
25	Python Fundamentals for beginners	Great Learning	February 2022
26	NPTEL-Introduction to Research	Indian Institute of Technology, Madras	January 2016

NPTEL Courses:

S. No	Topic	Grade	Duration
1	Introduction to Industry 4.0 and Industrial Internet of Things	Elite + Silver	January to April 2026
2	Machine Learning using Python	Elite	11-02-2026 to 14-02-2026
3	NPTEL: Introduction to Machine Learning (Tamil)	Elite	January to April 2025
4	NPTEL: Data Analytics with Python	Elite	January to April 2024
5	NPTEL: Introduction to Internet of Things	Elite+ Silver	July to October 2023
6	NPTEL: Cloud Computing	Elite+ Silver	July to October 2022

Industry Know How:

S. No	Topic	Institution	Duration
1	Data Science with Python	Wipro Certified Faculty Training Programme	19-01-2026 to 06-02-2026
2	Python Programming	Infosys Springboard	28-08-2024 to 03-09-2024
3	IBM Virtual Faculty Buildathon (Data Analytics)	IBM Smart Internz	24-07-2023 to 04-08-2023

Courses/ Training Programme/Expert Lectures delivered:

S. No	Title	Event Type	Duration of the Program	No. of Participants
1	Future Trends of Artificial Intelligence and Its Applications	Workshop	14-11-2025 to 15-11-2025	50
2	Research Paper Writing	Training Programme	10-01-2026	66
3	Introduction to AI, ML & Generative AI in Business” and “Business Use Cases & AI Transformation Strategy	IIT Mandi Certification Programme on Generative AI for Business Innovation	11-02-2026 & 12-02-2026	50
4	3 rd State level PYWEEK – A pygame Contest	Programming Contest	11.07.2022 to 18.02. 2022	110
5	4 th State level PYWEEK – A pygame Contest	Programming Contest	16.06.2023 to 24.06. 2023	343
6	5 th State level PYWEEK – A pygame Contest	Programming Contest	22.05.2024 to 29.05. 2024	149
7	Hands on practices on Data integration using n8n	IEEE MAS Sponsored 5 days Faculty Development Programme	06.07.2026 to 10.07.2026	50
8	Natural Language Processing and Intelligent Workflows using n8n	IEEE MAS Sponsored 5 days Faculty Development Programme	06.07.2026 to 10.07.2026	50
9	AI powered mathematics: solving problems in Real- time with MathGPT	One day workshop for school students and teachers	29.08.26	100

Technical Events/Courses/FDP/Seminar Organized:

S. No	Title	Event Type	Duration of the Program	No. of Participants
1	Deep Learning-An Industrial Approach and hands on practice	FDP coordinator	16-08-2024 to 17-08-2024	100
2	Block chain-An Introduction of Smart Security with applications	Seminar coordinator	27-09-2024	114
3	Block Chain and Smart Security	Coordinator – Value added course	Aug – November 2023	15
4	R programming	Coordinator – Value added course	30-12-2024 to 03-01-2025	66
5	AI App Development using Stream lit & LangChain	Course Coordinator – Value added course	22.07.2025 to 15.11.2025	44
6	COMPONEC(Inter College)	Staff Coordinator – Technical event	23-03-2023 to 24-03-2023	356
7	2 nd NEC Startup Entrepreneur Summit (NECSSES)- 2024	Reception Committee Convener – Technical event	22-08-2024 to 24-08-2024	-

Honours/Awards and Other Achievements:

- Recognized as NPTEL Discipline Star for Jan-Apr 2026
- Successfully cleared the Wipro Certified Faculty Program on Data Science with Python, conducted by Wipro TalentNext, from 19-01-2026 to 06-02-2026.
- Received award and certificates for the successful development of the innovative product "AI Chatbot and Parking Dashboard" at the Thoothukudi DSP Office. Honored by Tr. Albert John I.P.S., Superintendent of Police, Thoothukudi District, on 17th July 2025, in recognition of significant contribution to public service through the integration of AI technologies for Thiruchendhur Kumbabhishekam festival.
- Received award and certificates for the successful development of the innovative product "Project Guardian and Parking Dashboard" at the Thoothukudi DSP Office. Honored by Tr. Albert John I.P.S., Superintendent of Police, Thoothukudi District, on 10th October 2025, in recognition of significant contribution to public service through the integration of AI technologies for Dussehra festival at Kulasekara Patinam.
- Received award and certificates for the successful development of the innovative product "Crime Flow Analyzer and Case Maiyam" at the Thoothukudi DSP Office. Honoured by Tr. Albert John I.P.S., Superintendent of Police, Thoothukudi District, on 10th October 2025, in recognition of significant contribution to public service through the integration of AI technologies.
- Received Top Performing Mentor award for the course "Data Analytics with Python" during January to April 2024.
- Received Appreciation award for the course "Deep Learning-IIT Ropar" during January to April 2024.
- Received Best Project Award in UG level in the topic "IoT Based accident detection and rescue system" at International Conference on Recent Trends in Management, Engineering & Technology (ICMET 2023) during 23-12-2023.

Academic/ Administrative Roles:

- Centre of Excellence (MISTRAL AI & ML) Coordinator
- Department (AI&DS) Placement Coordinator for 2022-2026 batch.
- Department (AI&DS) Placement Coordinator for 2023-2027 batch.
- NAAC Criteria 5 Member (2021-2022)
- NBA-Criteria 9 Member (2021-2022)
- AI & ML Focus Group- Member (2022-2024)
- Discipline Committee Member (2024-2025)
- BOS Coordinator (2024-2025)
- Internship, In-plant Training, Industrial Visits Coordinator (2024-2025)
- Hackathon, Online Contest Student Participation Coordinator (2024-2025)
- Student Project Outcome Coordinator (2024-2025)
- Mentor for internship of 2023-2027 batch students under Shan AI Technologies.

- Product Development Process Steering Committee(PDPSC)member(2025-2026)
- ISTE Student and Staff Chapter Convener (2024–2025)
- Business Analytics Vertical-Member
- Joint Research Steering Committee member (NEC - MISTRAL JRSC) from 2025