

Name: Dr. P. KALAISELVI				
Designation:	Associate Professor			
Qualification:	PhD -Computer Science and Engineering, M.TECH (Computer Science and Engineering), B.E (Computer Science and Engineering),			
Area of specialization:	<ul style="list-style-type: none"> Machine Learning, Deep Learning, Image Processing, Neural Networks, Artificial Intelligence and Data Science 			
Experience:	Industrial Experience		Teaching Experience	
	1 year		12 Years	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	10		20	
Publications:	Conference		Journal	
	National	International	National	International
	4	15	NIL	5
Patents:	National		International	
	NIL		8	

AWARDS:

1. Received “NPTEL MOTIVATED LEARNER ”, “NPTEL DOMAIN SCHOLAR” award and “NPTEL BELIEVERS” award for the performance in NPTEL courses from IIT Madras 2026.
2. Received “NPTEL DISCIPLINE STAR” award and “NPTEL BELIEVERS” award for the performance in NPTEL courses from IIT Madras 2025.
3. Top Performing Mentor Award – NPTEL 2024, 2023
4. Veeramuthuvel Innovation Awards, 2024
5. Excellence in Reviewing, 2024
6. 100 % Admission for the Department, SRI SAIRAM ENGINEERING COLLEGE, 2024
7. 100 % Admission for the Department, SRI SAIRAM ENGINEERING COLLEGE, 2023

List of Books Published:

1. Book titled with “Machine Learning ” at Charulatha Publications on January 2025
2. Book titled with “Object Oriented Programming ” at Charulatha Publications on January 2025
3. Book titled with “Artificial Intelligence ” ” at Charulatha Publications on January 2025

GUEST LECTURES DELIVERED:

1. Guest Lecture on Recent Trends in AI , VELS MARINE UNIVERSITY .
2. Guest Lecture on Recent Trends in IoT , Zion Matriculation School.
3. Acted as Chief Guest for various Activities .

PUBLICATIONS (Journals) :

- **Arduino Child Caring Robot** , Kalaiselvi P; Esther C; Harish R; Harish Ragavendar D; Dinesh Kumar R; Hari Haran V, International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**
- **Aerial Lifesavers Enhancing Rescue Missions With Drone** , P. Kalaiselvi, R Harini, S Egadarshan, B Dinesh, R Vignesh , International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**
- **Prognosis of Brain Stroke Using Machine Learning**, P Kalaiselvi, G Gomathy, G Vasanth, P Aravinth, A Elamugilan, S Prasanth, International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**.
- **Fine-Tuning Private GPT For Better Performance And Data Privacy** , Aditya S; Kalaiselvi P; Esther C; Gomathy G, International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**.
- **Deep Learning Technique for Medicinal Plant Leaf Identification: Using Fine-Tuning of Transfer Learning Model**, P Kalaiselvi, C Esther, A Aburoobha, J Nishanth, S Gopika, M Kabilan, International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**.
- **Validation of two dimensional transperineal ultrasound and & dynamic magnetic resonance imaging in pelvic floor dysfunction using Passing Bablock Regression and Bland Altman plot** , Kalaiselvi.P, International Journal of Life Sciences Biotechnology and Pharma Research Vol, **Volume 12, Year 2023, Pages 1073-1081**.
- **Liver Tumor Prediction with Advanced Attention Mechanisms Integrated into a Depth-Based Variant Search Algorithm** , P Kalaiselvi, S Anusuya, Computers, Materials & Continua, **Volume Vol.77, No.1, 2023, Year 2023**.
- **Exploring Novel CNN Architectures for Deep Learning-Based Liver Tumor Occurrence Prediction**, P Kalaiselvi, S Anusuya, A Kumaravel, C Esther, G Gomathy, Arun Aravind, Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), **Year 2023**
- **Behavioral Analysis of Dog using Machine Learning**, G Gomathy, P Kalaiselvi, C Esther, B Arvind, S Vasanth, V Saiprasanna, Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), **Year 2023**.

- **Site-Specific Crop Management**, C Esther, G Gomathy, P Kalaiselvi, MR Roshia Parveen, S Madhumithaa, S Kanishka, Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), Year 2023.
- **Novel Cutting-Edge Security Tools for Medical and Genomic Data With Privacy Preservation Techniques**, G. Gomathy A. Rehash Rushmi Pavitra, I. Daniel Lawrence, J. Sarojini Premalatha, P. Kalaiselvi, D. Jena Catherine Bel, C. Esther, G.B. Zionna Sen, Publisher, John Wiley & Sons
- **DESIGN OF BIO-INSPIRED ALGORITHM FOR OPTIMIZING THE FEATURE SELECTION PREPARED FOR CLASSIFICATION IN LIVER TUMOR DETECTION**, Kalaiselvi P, Dr. S. Anusuya , Indian Journal of Computer Science and Engineering, Volume 13, Year 2022, Pages 1185-1196.
- **Automatic Waste Management based on IoT using a Wireless Sensor Network** , Gomathy G.;Kalaiselvi P.;Selvaraj D.;Dhinakaran D.;Anish T.P.;Kumar D.A., International Conference on Edge Computing and Applications (ICECAA), Year 2022, Pages 629-634
- Paper published in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8, Issue-11S, September 2019, **Metaclassifiers for Predicting the Robotic Navigational Performance** [Scopus Indexed].
- Paper published in International Journal of Advanced Research in Computer Science and Software Engineering," **A Comparative Study of Meta Classifier Algorithms on Multiple Datasets**" volume 3 issues3 2013(Indexed Journal).
- Paper published in International Journal of Advanced and Innovative Research," **Estimation of Association Mining to determine the performance of apriori algorithm**", ijair vol. 2 issue 5 issn: 2278- 7844.

Patent Published:

1. An Evaluation over Internet of Things(IoT) enabled real time weather forecasting system using Arduino
2. A Novel Multi-Scale Mechanism for Students Placement Prediction Using Sentiment Analysis in Machine Learning
3. AN ARTIFICIAL INTELLIGENCE ENABLED REAL TIME MUSIC RECOMENDATION SYSTEM
4. Hybrid Approach to Predict Plant Diseases using Internet of Things (IoT)
5. PROACTIVE ANALYSIS OF BRAIN STROKE USING MACHINE LEARNING TECHNIQUES
6. WOMEN SAFETY ANALYTICS - PROTECTING WOMEN FROM SAFETY THREATS
7. INTELLIGENT CUSTOMER RETENTION MODEL (ICRM) FOR REAL ESTATE
8. VIBRATION FENCING.

CONFERENCE PAPERS:

- Presented a paper on **Arduino Child Caring Robot** , International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**
- Presented a paper on **Aerial Lifesavers Enhancing Rescue Missions With Drone** , International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**
- Presented a paper on **Prognosis of Brain Stroke Using Machine Learning**International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**.
- Presented a paper on **Fine-Tuning Private GPT For Better Performance And Data Privacy**, International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**.
- Presented a paper on **Deep Learning Technique for Medicinal Plant Leaf Identification: Using Fine-Tuning of Transfer Learning Model**, International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), **Year 2024**.
- Presented a paper on **Exploring Novel CNN Architectures for Deep Learning-Based Liver Tumor Occurrence Prediction**, Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), **Year 2023**
- Presented a paper on **Behavioural Analysis of Dog using Machine Learning**, , Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), **Year 2023**

- Presented a paper on **Site-Specific Crop Management**, Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), **Year 2023**.
- Presented the paper in International Conference on Informatics, Robotics constructions and communication, “Metaclassifiers for Predicting the Robotic Navigational Performance”, on 7th and 8thfeb 2020.
- Presented paper in National Conference on Emerging Trends and Transformations in Engineering and Technology, on march 2018
- Presented a paper on Metaclassifiers for Predicting The Robotic Navigational Performance National Conference on Recent Trends in NCREACT ' 15 at Rrase College of Engineering.
- Presented a paper on A Comparative Study Of MetaClassifier Algorithms On Multiple Dataset National Conference on Recent Trends in NCREACT ' 13 at Rrase College of Engineering.

LIST OF SEMINAR/SHORT TERM COURSE/FDP/WORKSHOP ATTENDED:

- Participated in Two days’ workshop on” Two Days National Workshop on Hardware Architecture for Machine Learning Algorithms” on April 27th and 28th 2022.
- Participated in Five-daysFDP”Exercising Deep Learning Approaches in various Research “on Nov 2021 at VIT ,Chennai.
- Attended one day webinar on “Virtual and Augmented Reality Game development” on 24th July 2021.
- Attended online workshop on: “Python Programming”-20th May 2021
- Attended one day workshop on “Data Science” on 10thMay 2021.
- Completed NPTEL online course on Data Mining on feb-apr 2019
- Participated one day seminar on Exploring Patent Drafting and Filing Aspects, on Feb 2018.
- Participated one day training on python Programming, on Sep 2018
- Attended 3 days FDP on Automata theory and Compilers, on Dec 2017
- Attended one day Seminar on Publish or Perish, on 13th DEC 2017.
- Attended two days FDP on Grid and Cloud Computing on June 2017.
- Presented a paper on A Comparative Study Of MetaClassifier Algorithms On Multiple Dataset National Conference on Recent Trends in NCREACT ' 13 at Rrase College of Engineering.
- Participated in a Two Days National Seminar on “SOFTWARE TESTING TECHNIQUE” at Eswari Engineering College, 2012.
- Participated in a one-day workshop on “EFFICIENT TEACHING” AT Bharath University.
- Participated in a Three days’ Workshop on open source laboratory at Rrase College of Engineering
- Presented a paper on Metaclassifiers for Predicting The Robotic Navigational Performance National Conference on Recent Trends in NCREACT ' 15 at Rrase College of Engineering.

EXTRA-CURRICULAR ACTIVITIES:

- Received cash awards for 100 % results produced in various subjects.
- Class Topper in M.Tech and received Medal and Topper Certificates.
- Participated various sports and athletic events and won prizes in schools and college.
- Serviced in NSS (National Service Scheme) in the year of passing 2004 to 2007.
- Attended various online and offline conferences and workshops.

OTHER RESPONSIBILITIES FOR COLLEGE AND UNIVERSITY:

- Admission Core Team
- BIS Mentor for 20 students
- Class-In-Charge
- Department Robotic Club Coordinator
- Department IIRS Online Course Coordinator
- Website In Charge
- Department Digital Ambassador
- Department Research and Publication
- IPR Co-ordinator
- Year Coordinator
- Overall Placement Coordinator for all the Departments.
- Department Continuous Assessment Test Coordinator
- Worked in NACC and NBA for particular criteria.
- The schools are visit to government higher secondary school, Selaiyur for “Admission” Purpose
- Mentor
- Faculty Counselor
- Project coordinator
- Academic coordinator

EDUCATIONAL QUALIFICATION:

Programme	Discipline	Year of Passing	Class Obtained	University
Ph.D	CSE	2024	-	Saveetha University
M.Tech	CSE	2013	First class with Distinction	Bharath University, Chennai
B.E	CSE	2010	First Class	Anna University, Chennai
DIPLOMA	DCE	2007	First Class	DOTTE

Declaration: I hereby declare that all the information mentioned above is true to my knowledge and I have all supporting documents for the facts mentioned above.

(P. KALAISELVI)