


Name:	Dr S Bairavel		
			
Designation:	Professor CSE(IoT)		
Qualification:	Ph.D		
Area of specialization:	Big Data, Data Science, Machine Learning & Artificial Intelligence		
Experience : (As On November 2025)	Industrial Experience	Teaching Experience	
	3.3	23 Years and 2 month	
Number of workshop / FDP attended:	Number of Workshops	Number of FDPs	
	14	32	
Publications:	Conference		Journal
	National	International	National
	3	20	11
Patents:	National		International
	NIL		1
Professional Body Membership:	➤ Life member in Computer Society of India (CSI) -M.No: 11505033 ➤ IEEE Member: M.No: 101638880		

Events Participated (Seminars / FDP / Attended Summer Camps / Conferences.)

Sl. No.	Program	Duration	Organized by
1	Tamilnadu Youth Innovation and Entrepreneurship Development Programme (TNYIEDP)	26/11/2025 - 28/11/2025	Entrepreneurship Development and Innovation Institute (EDII) - TN
2	AI Driven Green Computing: Leveraging Edge-Cloud Collaboration for a sustainable Future	23/09/2025 - 30/09/2025	Patrician College of Arts and Science
3	Effect: Innovation, Impact and the Future of Industry"	02-10-2025 to 08-10-2025	Star International Foundation for Research and Education
4	Recent Trends and Emerging Technologies in Computer Science: Innovations, Applications and Research Perspective	18-08-25 to 22-08-25	St. Joseph College (Arts & Science)
5	AI Powered Edge Computing	23/06/2025 - 30/06/2025	Sri Sai Ram Engineering College.
6	5 Days FDP on ""Exploring AI: Trending Technologies" dt: 9-9-24 to 13-9-24	5 Days dt: 9-9-24 to 13-9-24	DMI College of Engineering, Chennai
7	6 Days FDP on ""Emerging Research Trends in Engineering and Technology" dt: 4-11-24 to 11-4-24	6 Days dt: 4-1-24 to 11-1-24	Kings Engineering College, Chennai
8	7 Days FDP on ""Python"dt: 19-3-24 to 25-3-24	7 Days dt: 19-3-24 to 25-3-24	Star International Foundation for Research and Education, Tiruchengode
9	5 Days FDP on ""Recent Frontiers in Pure & Applied Mathematics" dt: 11-11-24 to 15-11-24	5 Days dt: 11-11-24 to 15-11-24	Kongunadu Arts and Science College (Autonomous), Coimbatore
10	5 Days FDP on "Beyond Boundaries: Driving Innovation in Research"	5 Days dt: 26-12-24 to 30-12-24	Committee for Research Ethics, Publication & IPR, Auxilium College (Autonomous), Gandhi Nagar, Vellore in Collaboration with North East Institute of Social Sciences & Research, Dimapur, Nagaland.
11	7 Days FDP on "Cutting Edge Technologies in Computer Science" dt: 23-9-24 to 29-9-24	7 Days dt: 23-9-24 to 29-9-24	Easwari Engineering College, Ramapuram, Chennai
12	5 Days FDP on "Block chain"	from 2020-9-21 to 2020-9-25	AICTE Training And Learning (ATAL) Academy FDP at KCG College of Technology.
13	5 Days FDP on "Robotics"	from 2020-12-8 to 2020-12-12	AICTE Training And Learning (ATAL) Academy FDP at KCG College of Technology.
14	Attended a FDP on "Design and Analysis of Algorithms"	Hindustan University	14-12-17 to 19-12-17
15	Attended a FDP on "Integrating Geographical Information System"	KCG College of Technology	20-11-17 to 03-12-17
16	FDP on "Teaching Learning Pedagogy"	IIT Madras	Nov 1st to 03rd, 2017

17	FDP on “Python Programming”	KCG College of Technology	17-18 August’17
18	Attended a Seminar on “Futuristic Opportunities & Challenges in IoT ”	KCG College of Technology	22-07-17
19	Workshop on “Writing a Successful Business Plan”	KCG College of Technology	12-07-17
20	Attended a Seminar on “a Foresight into Research”	KCG College of Technology	27-06-17
21	Guest Lecture on “Emerging Trends in Mobile Technologies”.	KCG College of Technology	24/01/2017
22	FDP on Data Science and Big Data Analytics	KCG College of Technology	01-11-16 to 5-11-16
23	Workshop on ‘IET Editage Paper Publishing’	KCG College of Technology	08/08/2016
24	One day FDP on “E-Cell Training Program for Orientation Program in Entrepreneurship”	KCG College of Technology	19-07-16
25	Two day workshop on Outcome based Education	KCG College of Technology	09-07-16& 10-07-16
26	Attended a FDP on Computer Programming	KCG College of Technology	01-08-15
27	Attended a workshop on “Facilitating the teaching Learning Process through Emotional and Social Intelligence”	KCG College of Technology	01-11-15
28	Attended One Day conference on the constitution	KCG College of Technology	28-11-15
29	FDP on “Operating System Design Case Study”	KCG College of Technology	03-01-14 to 05-01-2014
30	workshop on TNOU-NSDC,	TNOU	13-11-14 & 14-11-14
31	Workshop on “Building Mobile Web Applications”	Open Soft, Chennai	31-01-13 to 02-02-13
32	International Workshop on “Cloud Computing Fundamentals and Aneka Platform”	KCG College of Technology	22-02-13
33	Guest Lecture on “Unix/Linux Operating System”	KCG College of Technology	14-03-13
34	FDP on “Research Methodologies”	KCG College of Technology	06-05-13 & 07-05-13 -
35	Workshop on” Outcome Based Accreditation Process and Procedures of NBA”	KCG College of Technology	13-07-13 & 14-07-13
36	Workshop on “How to develop an Android”	KCG College of Technology	03-08-13
37	Seminar on “Inspec and Academic Publishing”	KCG College of Technology	18-11-13
38	Seminar on “Oracle DBA Architecture”	KCG College of Technology	05-01-12
39	Seminar on “Navigating towards present IT Eternity”	KCG College of Technology	20-02-12
40	Engineering Software Quality	KCG College of Technology	19-03-12
41	Mind Without Fear	Anna University, Chennai	09-07-12

42	NS2	KCG College of Technology	04-03-2011 & 05-03-2011
43	APPLE i MAC – M/S Data Logistics	KCG College of Technology	27-09-11
44	Cloud Computing and Service Oriented Architecture	KCG College of Technology	15-12-11
45	LAMP-PHP MYSQL TOMCAT	KCG College of Technology	25-07-11
46	Mission 10X	KCG College of Technology	13-12-2010 to 17-12-2010

Conference Details:

S. No.	Title with page Nos.	Details of Conference Publication	ISSN / ISBN No.
1	Rider Re-Route Suggestions Using Demand Forecasting Based on Passenger's Routes	Lecture Notes in Networks and Systems 1341	2367-3389
2	CelestialNet: Deep Learning Approach for Celestial Object Classification Using Web Application	Lecture Notes in Networks and Systems Volume 1263 LNNS, Year 2025, Pages 131-142	2367-3389
3	Real-Time Speech Decoding through Advanced lip Reading using Deep Learning Model	2024 International Conference on Emerging Research in Computational Science (ICERCS)	979-8-3315-3496-7
4	A Mohamed Aamil, Palaniappan Sambandam, S Bairavel, S Karthikeyan, W Abdul Mukthadir "Patient Wellness Watch: AI-Powered Facial Video Analysis in Hospitals"	2024 International Conference on Smart Electronics and Communication (ICOSEC), ieeexplore.	979-8-3315-0439-7
5	N Babu, S Bairavel, JRJ Raja, FKF Khan, H Siva "Quantitative Analysis and Collision Risk Assessment of Near-Earth Orbit Space Debris for Sustainable Space Exploration"	2024 International Conference on Electronics, Computing ..., 2024, ieeexplore.ieee.org	9798350385939
6	Waquib Rafique Baruah, R. Dhanalakshmi , and S. Bairavel "Mitigating Theft-of-Service Attack - Ensuring Cloud Security on Virtual Machines"	International Conference on Advances in Materials, Computing and Communication Technologies AIP Conf. Proc. 2385(January 2022)	978-0-7354-4161-3
7	Nayak, B., Thota, N.P., Kumar, J.D., Dhanalakshmi, R., Bairavel, S "Currency Detector for Visually Impaired using Machine Learning".	ICSCAN 2021.	978-1-6654-3987-9
8	Joy, M.R., Bairavel, S., Dhanalakshmi, R."Implementing QR Code-Based Contact Tracing Framework"	ICSCAN 2021	978-1-6654-3987-9
9	Swathi, S., Saranya, E., Prabakaran, R.M.,	ICSCAN 2021.	978-1-6654-3987-9

	Sachin Kumar, M., Bairavel, S “Virtual Health Assistant”		
10	Application to Filter Unwanted Messages from OSN User Walls	2021 International Conference on Simulation Automation and Smart Manufacturing Sasm 2021 Volume , Year 2021, Pages	2190-3018
11	Preventive approach to avoid intrusion in relational databases using response patterns	IET Chennai 3rd International Conference on Sustainable Energy and Intelligent Systems (SEISCON 2012)	9781629936079

S. No.	Name of the paper	Name of the Conference	Date(s)	Organized by or Venue	National/ International
1	IoT based Bus Tracking System	International Conference on Cyber Physical Systems – ICCPS’19	March’19	R.M.K Engineering College	International
2	Virtualized Fashion Assistant for Personalized Outfit Recommendation	National Conference on Recent Innovations in Advanced Material Science – RIAMS’19	March’19	Rajalakshmi Institute of Technology	National
3	“Android based multi-purpose location tracking application”	ICKCT’18	Apr’18	KCG College of Technology	International
4	Analysis Of Sentiments Using Facial Features Hand Gestures Audio And Textual Clues,	ICETECT-17	Apr’17	Saveetha School of Engineering, Chennai	International
5	Eegai Vruksham,	ICTACC’17	Apr’17	Adhiparasakthi Engineering College, Melmaruvathur	International

6	"Tracking and analyzing the public opinion variation on twitter using graph based co-ranking algorithm"	International Conference on Innovations in Informations, Embedded and communications system ICIIECS'16	March'16	Karpagam College of Engg, Coimbatore	International
7	"A survey on tracking and analyzing the public opinion variation on twitter using graph based co-ranking algorithm"	National Conference on Advanced Computing Technologies NCACT'15	October 2015	KCG College of Technology	National
8	"Sentiment Analysis and Classification for Textual Reviews using Fuzzy C-Means Clustering Algorithm"	International Conference on Emerging Trends in Information Technology ICETIT'15	March 2015	ISBN 978-93-80509-59-4	International
9	"Intelligent system for the prediction of emotions via text mining"	International Conference on Advances in Computer Science and Information Technology ACSIT'14	March 2015	-	International
10	"Analysis of Identity Theft by Scoring and Social Relations"	International Conference on Informatics, Computics and Networkictics ICICN'13	26 th February 2013	-	International
11	"A Spike and Communal Link Oriented Approach of Scoring Credit Card Approval"	International Conference on Informatics, Computics and Networkictics ICACIT'13	28 th February 2013	-	International
12	"Intrusion Prevention Protiocol for	National Conference on Technology	17 th March 2012	-	National

	Intrusion Response System with Response Patterns for Relations”	Advancements in Computer Technology NCTACT’12			
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Book Chapters

S. No.	Title with page Nos.	Book Title, editor & Publisher	ISSN / ISBN No.
1	Priya K.;Krishnaveni R.;Krishnamurthy M.;Bairavel S ” Analyzing Social Emotions in Social Network Using Graph Based Co-Ranking Algorithm” Pages 329-341	Research Anthology on Implementing Sentiment Analysis Across Multiple Disciplines Volume I -IV Volume 1-4, Year 2022,	2630-5046

Journal Details:

S.No.	Title with page Nos.	Journal	ISSN / ISBN No.
1	Mohanty A.;Mohapatra A.G.;Nayak N.;Bairavel S.;M.H C.;Lakshmi M.;Govindaram A.;Jose Anand A” Optimizing diesel generators in industrial settings with IoT and machine learning(2025)”	International Journal of Information Technology Singapore	2511-2104
2	Bairavel Subbaiah, Kanipriya Murugesan, P Saravanan, K Marudhamuthu”An efficient multimodal sentiment analysis in social media using hybrid optimal multi-scale residual attention network(2024)”	Artificial Intelligence Review	0269-2821
3	Bairavel S and M. Krishnamurthy (2020). Novel OGBEE-based feature selection and feature-level fusion with MLP neural network for social media multimodal sentiment analysis.	Soft Computing, 24, 18431–18445.	1432-7643
4	Bairavel S and M. Krishnamurthy (2020). User Preference and Reviews Analysis with Neural Networks for Travel Recommender Systems.	International Journal of Engineering Research and Technology, 13(8): 1896-1900.	09743154

5	Bairavel S, Lakshmi T K, Praveen Gugulothu, Abrar Ahmed Katiyan, Chandravadhana S and Helina Rajini Suresh A “Machine Learning-Based Video Compression for Effective Video Encoding and Transmission (2025)”	Journal of Machine and Computing.	27891801
6	Kanipriya M., Krishnaveni R., Krishnamurthy M. and Bairavel S. (2020). Aspect based Sentiments Analysis from Tweets Using Convolutional Neural Network Model.	Journal of Advanced Research in Dynamical and Control Systems., 24(4): 106 – 114.	1943-023X
7	Kanipriya M., Krishnaveni R., Krishnamurthy M. and Bairavel S. (2020). An Aspect Based Sentimental Analysis Approach Using Convolutional Neural Networks And Recognizing Audience Feedback through Facial Expression To Analyze The Sentiments In Presentations.	International Journal of Advanced Science and Technology., 29(3): 11175 - 11184.	2005-4238
8	Priya K., Krishnaveni R., Krishnamurthy M. and Bairavel S. (2020). Analyzing Social Emotions in Social Network Using Graph-Based Co-Ranking Algorithm.	International Journal of Technology and Human Interaction (IJTHI)., 16(2): 23 - 33. Q3 Journal.	1548-3908
9	Kalpana K.;Kanipriya M.;Krishnamurthy M.;Bairavel S” Aspect based sentiment analysis for textual reviews using fuzzy C-means clustering algorithm(2015)”	International Journal of Applied Engineering Research	25819-25830
10	Kanipriya M., Krishnaveni R., Krishnamurthy M. and Bairavel S. (2020). Aspect Based Sentiments from Tweets using Co-Ranking Multi-Modal Natural Language Processing Methodologies.	International Journal of Recent Technology and Engineering (IJRTE).,8(5), 2277 - 3878. Q4 Journal, H Index: 17.	22773878
11	Kanipriya M., Krishnaveni R., Krishnamurthy M. and Bairavel S. (2020). An Aspect based Sentimental Analysis Approach using Deep Neural Networks and Artificial Fish Swarm Optimization to Analyze the Sentiments in Tweets.	International Journal of Advanced Science and Technology., 29(3): 5138 – 5147. Impact Factor: 0.11, Q4 Journal.	1548-3908