

Kings College of Engineering

Department of Computer Science and Engineering

Name: Mrs. S. Abikayil Aarthi	
Designation:	Assistant Professor
Qualification:	M.Tech , Ph.D. (Pursuing)
Area of Specialization:	Artificial Intelligence, Machine Learning
Experience:	Teaching: UG: 5 Years PG: 1 Year
	Industry: 04 Years
No. of workshop/Conferences/FDP attended:	72
Publication:	Journal National: 10 International : 04
	Conference National : 07 International: 10
Membership:	IEEE Member
Achievements :	Received Enlighten Certification in NPTEL
	Oracle certifier

Publications:

1. "Distributed Computing in Image Analysis using Open source Frameworks and application to image sharpness assessment of Histological Whole Slide Images" in IJSART E- Journal Volume 9, Issue 10, in October 2023.
2. "Prediction of Heart Disease using Retinal images by Neural Network Algorithm "in IRJMETS, volume 0, Issue 10, October 2023.
3. "A Survey of enabling secure and scalable heart care data exchange through Distributed Computing" in International Journal for Science and Advance Research In Technology(IJSART) Volume 9, Issue 10, in October 2023.
4. "Artificial Intelligence in Gaming" in Journal Of Emerging Trends and Novel Research (JETNR)- Journal with Paper ID: 230207, volume 02, Issue 01 in January 2024.ISSN 2984-9276.
5. 'AutoMI and Automated Machine Learning Pipelines', in International Journal of Research Publication and Reviews (IJRPV), vol. 05, Issue 04, 01 st May 2024.
6. 'Lung Disease Detection Using Deep Learning', in International Research Journal of Modernization in Engineering Technology and Science(IRJMETS), vol. 06, Issue 05, May 2024.
7. "Sign Language Interpreter using Machine Language "in International Research Journal of Modernization in Engineering Technology and Science(IRJMETS), vol. 06, Issue 05, May 2024.
8. "Blockchain Integration in Distributed Systems: Enhancing Security and Trust" in International Research Journal of Engineering and Technology (IRJET)- Journal with Paper ID:, volume 11, Issue 11, November 2024.ISSN 2395-0072
9. The Distributed Computing Model Based on The Capabilities of The Internet" in International Research Journal of Engineering and Technology (IRJET)- Journal with Paper ID:, volume 11, Issue 11, November 2024.ISSN 2395-0072
10. "An In-Depth Comparative Study of Distributed Data Processing Frameworks: Apache Spark, Apache Flink, And Hadoop Mapreduce" in International Journal for Science and Advance Research In Technology (IJSART)- Journal with Paper ID:, IJSARTV10I11101522.ISSN 2395-1052
11. "Edge and Fog Computing in Distributed Sytems: Architectural Insights and Challenges" in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)- Journal with Paper ID:, Volume 6, Issue 11 2024. ISSN 2582-5208
12. "Exploring Data Consistency Models in Distributed Systems: Balancing Consistency and availability" in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)- Journal with Paper ID:, Volume 6, Issue 11 2024. ISSN 2582-5208
13. "Emission Tracker : Instantaneous Monitoring and Explorative Analysis of Vehicle consume discharges for Ecological Sustainability" Published in SCOPUS indexed journal Gradiv Review Journal , ISSN NO:0363-8057, Volume 11Issue 5 2025.
14. "Multimodal Biometric ATM Substantiation using face and fingerprint Acknowledgment", published in Peer-Per Journal, IJIRT, Volume 11, ISSUE 12,2025 ISSN :2349-6002.

Patent:

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| 1. UK Design Patent Registered in the Title of “Cloud Computing Device for Enhanced Network Security” under International Design Classification on Version 15-2025. |
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International /National Conferences:

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| 1. “Driver Assistant for the detection of Drowsiness and emergency alert” 2nd National Conference on Recent Advances in Communicative electronics (NCRACE 2023) organized by SRM TRP Engineering College, Trichy |
| 2. “AI Techniques for Classifying Human Suspicious Activity Detection – Survey” in ICT ,IEEE Sponsored International Conference on Computing ,Communication and Control IC4 - April 2023. Organized by Kings college of Engineering. |
| 3. “Human Suspicious activity detection using AI techniques” 2nd National Conference on Recent Advances in Communicative electronics (NCRACE 2023) organized by SRM TRP Engineering College, Trichy. |
| 4. “Lung disease detection using deep learning” International Conference on recent innovation in computer communication and manufacturing organized by AAA College of Engineering, Sivakasi. |
| 5. “COVID-19 prediction using machine learning” National level conference on promoting Innovation in environmental research and science organized by Bannariamman Institute of technology, Erode - QCPRL & CMRL. |
| 6. ”Yoga posture analysis using deep learning techniques” 13thInter National Conference on Science and Innovative engineering 2023 organised by Jawahar Engineering college, Chennai. |
| 7. “Smart energy meter and digital billing system using android app” International conference on Innovation in electrical, electronics & communication engineeringorganised by St. Ann's College of Engineering& Technology , Chirala, Andra Prade. |
| 8. “Smart Analyzer storing student academic and showing result” Two day Virtual conference quality enhancement of institutions of Higher Learning: Transformational Role of NEP 2020 organized by St. Aloysius college, Elthuruth. Kerala. |
| 9. “Speech Emotion Recognition using Machine Language” in 3rd National Conference on NCRACE 2024, Organized by SRM TRP Engineering College, Trichy during 14th-15th March 2024. |
| 10. “Speech Emotion Recognition using Machine Learning Techniques” at 1st International Conference on Innovation Research in Engineering Sciences(ICIRES-2004) organized by CHRIST THE KING Engineering college during April 10th , 2024. |
| 11. “ Speech sensation acknowledgement by means of Machine Learning” at International Conference on ”Recent Trends in Engineering & Science (ICRTES 2024)” organized by Kings College of Engineering , Pudukkottai during May 02-03, 2024. |

12. "Rice Blast: Plant Detection using Internet of Things and AI Technologies" at International Conference on "Recent Trends in Engineering & Science (ICRTES 2024)" organized by Kings College of Engineering , Pudukkottai during May 02-03, 2024.
13. "Application of E-Commerce in E-Learning" at 4th International Conference on Intellectual Research in Science , Engineering and Management (ICIRSEM 2024)" organized by St. Joseph College of Engineering , Thanjavur during 17 th & 18 th April 2024.
14. "Survey on Application of E-Commerce in E-Learning" at International Conference on "Recent Trends in Engineering & Science (ICRTES 2024)" organized by Kings College of Engineering , Pudukkottai during May 02-03, 2024.
15. " Suspicious activity detection using AI Techniques" at International Conference on "Recent Trends in Engineering & Science (ICRTES 2024)" organized by Kings College of Engineering , Pudukkottai during May 02-03, 2024.
16. "Ticketing Tool for College Laboratory" at National Conference on Recent Innovation in Engineering and Science (NCORIES' 2K24) organized by University College of Engineering, Pattukkottai during 27 th May 2024.
17. "Survey on sustainability and the SDG's" in the National Conference on "Quality Assurance Learning" organized by Dr. M. R. Educational and Research Institute, Chennai during 21.06.2024.

Book & Book Chapters:

1. Database Management System Book

FDP/Seminar attended

1. FDP on Microsoft Power BI data analyst associate organized by ICT Academy during 01/08/2022 to 05/08/2022
2. FDP on Recent Trends in AI & CS 01/11/2022 - 05/11/2022
3. FDP on Next - Gen data Platforms 2023 during 18/11/2022 to 19/11/2022
4. FDP on Advanced Java Programming during 05/12/2022 to 09/12/2022
5. FDP on Societal Application of Machine Learning during 26/12/2022 to 30/12/2022
6. FDP on Machine Learning and Deep Learning during 23/01/2023 to 28/01/2023
7. FDP on Full Stack Web development during 27/02/2023 to 01/03/2023
8. FDP on Recent advances in data science, Data Analytics and Cyber security during 01/03/2023 to 05/03/2023
9. FDP on Artificial Intelligence & Machine Learning in smart energy systems during 03/03/2023 to 05/03/2023

10. FDP on Marketing Analytics for strategic Decisions – A case Based Approach during 24/04/2023 to 28/04/2023.
11. FDP on Data Science and its Engineering Application during 22/05/2023 to 26/05/2023.
12. “Machine Learning and Deep Learning with Data Science” during 17/07/23 to 21/07/23
13. ” Emerging Technologies” organized by ICT Academy, during 17/08/23 to 19/08/23.
14. “Cloud Infra” organized by Brainovision during 21/08/23 to 25/08/23.
15. “ Deep Learning” organized by NITTTR, Chandigarh during 11/09/23 to 15/09/23
16. Microsoft Power BI” at 3. Staff seminar “Recent Trends of Emerging Technologies” KCE during 19.09.2023 & 22.09.2023
17. Exploring Horizons: The Next Wave of AI and Data Science” organised by SRM TRB Engineering College, Trichy during 25/09/23 to 29/09/23
18. “Augument Reality (AR) and Virtual Reality (VR) for Teaching and Learning Values” organised by Vellore Institute of Technology, Coimbatore during 13/10/23 to 17/10/23
19. Artificial Intelligence in Teaching and Learning the English Language organised by Anna University Chennai in association with Sri S. Ramasamy Naidu Memorial College, Sattur during 14/12/23 to 16/12/23
20. ATAL Academy Faculty Development Program on “Federated Learning: Collaborative Artificial Intelligence Research in a Privacy- Preserving Era” organised by A.V.C College of Engineering, Mayiladuthurai 18/12/23 to 23/12/23
21. IEEE Sponsored FDP programme on Applications of Digital technologies in Agriculture organised by SRM, Kattangulathur. 29/11/23 to 30/11/23.
22. IEEE Madras Section Sponsored 5 Days FDP(Hybrid Mode) on “Emerging Trends in Artificial Intelligence and Deep Learning organised by Sri Sairam Institute of Technology, Chennai. 26/12/23 to 30/12/23.
23. 'NAAC and Internal Quality Assurance' scheduled from 26/02/2024 to 01/03/2024 to be conducted in online mode by NITTTR, Chandigarh.
24. One-day National online FDP on “Research Methodology and Research Report Writing” Organized by Trinity College of Engineering & Technology,Pedapalli on 21st March 2024.
25. National level Seminar on “AI,DH and English studies” Organized by Maharaja Krinakumari Sinhji, Bhavnagar University, Gujarat on 29th March 2024.
26. FDP on “ AI for Educators” organized by Institute of Public Enterprise(IPR), Hyderbad on May 20 th - May 24 th ,2024.
27. FDP on” Research Methodology for Engineering and Sciences (PS16F)” organized by NITTTR, Kolkata. 27/05/24 to 31/05/24.
28. “ Outcome Based Education” scheduled from 27/08/2024 organized by Kings College of Engineering, Punalkulam.

29. Transformative technologies in Healthcare : Leveraging Data Science, Iot, AI” scheduled from 23/09/2024 to 29/09/2024 organized by St. Joseph College of Engineering & Technology, Thanjavur
30. Data Science & Machine Learning applications for Engineering and Science” scheduled from 21/10/2024 to 27/10/2024 organized by Shri Vishnu Engineering College for Women, Bhimavaram.
31. Five days National Level Faculty Development Program on “ Teacher Student Mentoring : A Key to unlocking Academic Excellence” organized by JP College of Arts and Science , Tenkasi during 21.04.25 to 25.04.25
32. Six days Faculty Development Program on Harnessing Intelligent Systems: Accelerating digital Evolution in the Industry 5.0 Framework” organized by Panimalar Engineering College, Chennai during 23.06.25 to 28.06.25
33. Faculty Development Program on “ Embedded System & IoT for Real world Applications ” organized by Alpha College of Engineering, Chennai during 14.07.25 to 19.07.25

Programs organized

1. One day workshop on Web Design” at 02 Feb 2023 at Kings College of Engineering.
2. Engineers day 2023- Event at 15.09.2023
3. External Workshop on Python with Data Science during 19.10.2022 at Kings College of Engineering.
4. Extenal workshop on Machine Learning with Google – Colab 28.04.2023
5. External Farmer Awareness Programme during 16th Feb 2024 at Kings College of Engineering.
6. Webinar on “AI tools for Academic Research Writing and Publishing” during 07th March 2024 at Kings College of Engineering
7. “Millet and India Poster Design Competitions” during 12 th March 2024 at Kings College of Engineering.
8. Online Webinar on “Gate Perspectives” during 23 rd March 2024.
9. IEEE- Project Prelims Round at 23 rd March 2024 behalf of IEEE Madras Section on Hybrid mode at Kings College of Engineering.
10. International Conference on Recent Trends in Engineering & science (ICRTES- 2024) during 2 nd & 3 rd May 2024.
11. State Level Technical E-Quiz on “PATENT RIGHTS” on 15.04.2024 Kings College of Engineering
12. Workshop on “Cyber Security: Safeguard your digital world” during 11 th & 12 th May 2024 at at Kings College of Engineering.
13. Online Webinar on “How to write a Grant Proposal in an effective manner” during 31 st May 2024.

14. Guest Lecturing on “Protecting Innovations through IPR” in 17.05.2024 at Kings College of Engineering
15. Webinar on “Transforming Knowledge into Intellectual Property Assets” in 31.07.2024 at Kings College of Engineering, Punalkulam
16. Intellectual Property Rights Cell on 20.08.2024 at Pattukkottai Polytechnic College.
17. One day National Level Workshop on “Generative AI” on 30.09.2024 at Kings College of Engineering, Punalkulam
18. Speech Competition in “Leveraging Technology for a Better Tomorrow” in 27.09.2024 at Kings College of Engineering
19. Seminar on Project End in View in 23.09.2024 at Kings College of Engineering.
20. Convener for IEEE Madras section sponsored Workshop on Machine Learning and Data Science, KCE, during 18.10.23 to 20.10.24
21. Carrom Tournament on 28.10.2024 to 04.11.2024 at Kings College of Engineering.
22. 5 Days International FDP on “Revolutionizing Education with Machine Learning & Generative AI” 28.01.25 to 01.02.25
23. Two days’ workshop with Hands-on “Digital Marketing” during 10.03.25 & 11.03.25
24. Webinar “ Generative AI and Big data analytics for smart Health system” during 17.03.2025
25. Mega – ICT QUIZ under the IEEE – CS MAS during 25.03.2025
26. Webinar on : Igniting Innovation: The Entrepreneurial Spirit” during 15.04.2025

Out Reach Activity:

1. Acted as a Resource person for the Guest Lecture event on the topic “Cloud Operating Systems” Organized by Dept. of Computer Science, Bon Secours College for Women, Thanjavur on 29.08.23
2. Acted as a IEEE – Young Professional Representative from 2023- till date
3. Acted as a Reviewer in 3rd international Conference on Smart Technologies and System for Next Generation Computing (ICSTSN 2024), IFET college of Engineering
4. Acted as a PILOT in “IEEE YESIST12 Project Expo” Preliminary round by presenting IEEE Madras Section during 23 rd March 2024
5. Awareness Session for “Adullam Hone for the Aged” at Mangalapuram, Thanjavur during 14 July 2025.
6. Acted as a Reviewer in IEEE 2 nd International Conference on Green Industrial Electronic and Sustainable Technologies (GIEST 2025), NIT Jamshedpur.