

Sri Sai Ram Engineering College

Department of Computer Science and Engineering

Name & Photo:	Dr.D.KAVITHA 
Qualification:	M.Tech, Ph.D
Area of Specialization:	Big Data Analytics and Deep learning
Year of Experience: :	Teaching : 12 yrs Industry: 1 Yr.
No. of workshop/ Conferences/ FDP attended :	50
Publications:	Journal: International :7 National : Nil Conference: National : 3 International: 15
Research Guidance:	Nil
General:	Senior Member in IEEE Member IEEE Information Theory Society Life time Member in Indian Society For Technical Education (ISTE) Life Member in International association of Engineers(IAENG)

Staff Achievements:	<ul style="list-style-type: none"> ● ATL Top 50 mentor and Consistent Mentor in ATL Tinkerpreneur 2022 and 2021 ● Advisor IEEE information Theory Society Student Branch Chapter ● Published paper in reputed International Journals, Presented papers in various National and International Conferences. ● Certified CCNA Trainer (Cisco Networking Academy) ● Got certification in NITTT Modules ● ISO EOMS certified auditor ● Completed Certification course on Panchayat Administration and Rural development schemes conducted by State Institute of Rural Development and Panchayat Raj with A+ grade
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Professional Experience:

Sl. No	College / Organization	Designation	Period	
			From	To
1	Sri Sai Ram Engineering College	Assistant Professor	01.11.2014	Till date
2	National Institute of Technical Teachers Training Institute	Trainee	01.12.98	30.11.99

Paper Publications:

- D.Kavitha, Dr.A.Chinnasamy, P.Selvakumari, “ **Intelligent decision-making framework for big data using enhanced honey badger-based adaptive hybrid deep learning network**” *International Journal. Data Mining and Bioinformatics, Vol. 29, Nos. 1/2, 2025.* DOI: 10.1504/IJDMB.2025.10066770
- **Kavitha, D.**, Chinnasamy, A., Sangeerani Devi, A.S., Shali, A. “Safety Monitoring System in Mining Environment Using Iot “,Journal of Physics: Conference Series, 2021, 012022, doi:10.1088/1742-6596/1724/1/012022
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- Sangeerani DeviA, Chinnasamy, A., **Kavitha, D.**, Shali A.” Any Where Vote: ATM as Evm “Journal of Physics: Conference Series, 2021, 012021, <https://doi.org/10.1088/1742-6596/1724/1/012021>
- Shali, A., Sangeerani Devi, A, **Kavitha, D.** “Agricultural Farming Survey Using Iot “Journal of Physics: Conference Series, 2021, 012047
- Kavitha D, Anusha R, Deepa Lakshmi V, Mythili N, Shali A “Smart System for Efficient Monitoring of Food Grains” *International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-1S, October 2019* DOI:10.35940/ijeat.A1020.1091S19
- Shali A, Kavitha D, Sangeerani Devi “A Smart Driver Assistance System for Accident Forestalling “*International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-1S, October 2019* DOI:10.35940/ijeat.A1022.1091S19
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- D.Kavitha.” Modern shopping cart with automatic billing system using load sensor”

National and International Conferences

- D Kavitha; Dhinesh Krishna S B; Abinesh M; Sakthi Ganesh D “ Innovative Breathing Therapy for Cystic Fibrosis-A Gaming Perspective” International Conference on Computing and Communication Technologies (ICCCT), IEEE *Xplore*: 10 June 2025, DOI: 10.1109/ICCCT63501.2025.11019803
- Kavitha D; Rajavarshini R U; Nivedha J; Ragavi R; Sumathi S, IoT-Enabled Proactive LPG gas Surveillance and Alert System, International Conference on Computing and Communication Technologies (ICCCT), IEEE *Xplore*: 10 June 2025, DOI: 10.1109/ICCCT63501.2025.11019507
- Sparkle - Mobile Application for Real-Time Activity Analysis and Mental Wellness Insights Kavitha D.;Desigan M.;Subanandham E.R.;Kumar S.N.;Pranaav P.;Madhan H. 2024 International Conference on Communication Computing and Internet of Things Icc3iot 2024 Proceedings , Vol. (2024)
- Industry-Specific IoT-Based Air Pollution Monitoring System Kavitha D.;Sasidharan S.;Gokul S.;Karthik R.;Latha K.;Hemavathi S. 4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Iccpets 2024 , Vol. (2024)
- Convenient Way of Accessing Multimedia Functions Using ML and Open CV Hemavathi C.;Vivekanandhan G.;Cibi C.;Abhinav Krishna R.;Velmurugan K.J.;Kavitha D. 2023 Intelligent Computing and Control for Engineering and Business Systems Iccesb 2023 , Vol. (2023)
- Remindify: A Seamless Automation for Daily Tasks Devi A.S.;Akilaandeswari K.;Bhavantee C.;Shali A.;Kavitha D. 2023 Intelligent Computing and Control for Engineering and Business Systems Iccesb 2023 , Vol. (2023)
- Subjective Analysis and Progressive Assistance of Psychological Disorders Sruthi R.;Harikumar A.;Shali A.;Devi A.S.;Kavitha D. 2023 Intelligent Computing and Control for Engineering and Business Systems Iccesb 2023 , Vol. (2023)
- Smart Agri Guide Kavitha D.;Desigan M.;Subanandham E.R.;Madhan H.;Latha K.;Hemavathi S. 2023 Intelligent Computing and Control for Engineering and Business Systems Iccesb 2023 , Vol. (2023)
- S Hemavathi; Lohith Sumesh; R Sai Krishnan; K. Latha; K. Jayasakthi Velmurugan; D. Kavitha “ System for Prioritizing Covid-19 Patients Based on Certain Parameters” IEEE *Xplore* , International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), 08-09 December 2022, DOI: [10.1109/ICPECTS56089.2022.10047794](https://doi.org/10.1109/ICPECTS56089.2022.10047794)
- K Latha; D Srinivasan; KM Nifhash; V Lokesh; D Kavitha; S Hemavathi “ Vaelan Smart Irrigation System Using Iot “ , IEEE *Xplore* , International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), 08-09 December 2022, DOI: 10.1109/ICPECTS56089.2022.10046955
- A Sangeerani Devi; Akilaandeswari K; Bhavantee C; A Shali; D Kavitha; S Hemavathi, Smart Security System”, IEEE *Xplore*, 2022 1st International Conference on Computational Science and Technology (ICCST), 09-10 November 2022, DOI: 10.1109/ICCST55948.2022.10040301

- Srivathsan, R., Logesh, S.J., Kavitha, D., “GSM and Arduino Based Smart Circuit Breaker”, IEEE Xplore, 2022 1st International Conference on Computational Science and Technology (ICCST), 09-10 November 2022, DOI: 10.1109/ICCST55948.2022.10040273
- Keerthana, R., Jeevitha, N., Kavitha, D. “Implementation and detection of optic nerve and retinal disorders” , IEEE Xplore, 2022 1st International Conference on Computational Science and Technology (ICCST), 09-10 November 2022, DOI:10.1109/ICCST55948.2022.10040472
- R Neathi; S Bhargavi; D Kavitha “ Dactylology Sensor Using Raspberry-PI”, IEEE Xplore, 2022 1st International Conference on Computational Science and Technology (ICCST), 09-10 November 2022, DOI: 10.1109/ICCST55948.2022.10040310
- Geetika, S., Vasupradha, S., Kavitha, D., Chinnasamy, A. “Smart Plant Watering System, 13th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2022,
- **D. Kavitha**; Arvind M; Ram Prasad J; Hemanth Reddy T; Nithish Raja K L, “ **Internet of Vehicles based Pollution Control Analyser**”, IEEE Xplore 2022 International Conference on Applied Artificial Intelligence and Computing (ICAAIC), 09-11 May 2022, DOI: 10.1109/ICAAIC53929.2022.9792956
- D.Sathish Kumar; Thiruvarangan B C; Sai Nikhil Reddy C; Vishnu A; A.Sangeerani Devi; **D. Kavitha**, “**Analysis and Prediction of Stock Price Using Hybridization of SARIMA and XGBoost**”, IEEE Xplore 2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), 10-11 March 2022, DOI: 10.1109/IC3IOT53935.2022.9767868
- Neathi, R., **Kavitha, D.**, Chinnasamy, A., ...Kanchana Devi, V., Sathish Kumar, D. “**Context aware attention learning for person re-identification (a data driven approach)**”, IEEE Xplore 2nd International Conference on Artificial Intelligence and Signal Processing, AISP 2022, 12-14 February 2022, DOI: 10.1109/AISP53593.2022.9760563
- Kanchana Devi V., Kavya A., Umamaheswari E., Karmel A., **Kavitha D.**, Shruthi D. (2022) IoT-SDWD: Internet of Things-Based Security Device for Women in Danger. In: Senjyu T., Mahalle P.N., Perumal T., Joshi A. (eds) ICT with Intelligent Applications. Smart Innovation, Systems and Technologies, vol 248. Springer, Singapore. https://doi.org/10.1007/978-981-16-4177-0_32
- Kavitha, D., Chinnasamy, A. “Ai Integration in Data Driven Decision Making for Resource Management in Internet of Things(Iot): A Survey”, IEMECON 2021 - 10th International Conference on Internet of Everything, Microwave Engineering, Communication and Networks, 2021 **DOI:** 10.1109/IEMECON53809.2021.9689109
- Alamelu, M., Kumar, D.S., Sanjana, R.,Sangeerani Devi, A.S., Kavitha, D., “Resume Validation and Filtration using Natural Language Processing”, IEMECON 2021 - 10th International Conference on Internet of Everything, Microwave Engineering, Communication and Networks, 2021,10.1109/IEMECON53809.2021.9689075
- **Kavitha, D.**, Periasamy, J.K., Chinnasamy, A., “Smart Checkup and Health Assistance Based on Internet of Things (24/7), ICPECTS 2020 - IEEE 2nd International Conference on Power, Energy, Control and Transmission Systems, 2020, 9337043
- D Kavitha, E Akshay, AM Hemanth Kumar, J Srinath "Groundwater forecasting analysis

using machine learning" ,(UGC Journal) Journal of the Gujarat Research Society, Vol 21, Issue 17. Dated 30.12.2019

- D.Kavitha “Discarding DDOS attacks on servers -Key based approach” National Conference on Advanced Computing Technologies and Applications organised by Department of CSE, Sri Muthukumaran Institute of Technology on 02nd March 2012.

Patent Published

- IOT BASED SMART E METER - Application No.202141018332 A
- ARTIFICIAL INTELLIGENCE BASED SMART ROAD CLEANING ROBOT
Application No.202241077100 A
- DESIGN OF ROBOT FOR WOMEN'S SAFETY AND SECURITY
PATROLLING DURING NIGHT - Application No. 202341078944
- AUTOMATION OF MOTORBIKES USING AI - Application No. 202541041143

Books Published

Mastering Big data Analytics tools techniques and best practices, Notion press 2024.
ISBN 979-8895196731

Events Organised

- Organised IEEE Madras section funded Faculty Development Program on INTEGRATING GENERATIVE AI AND PROMPT ENGINEERING IN ACADEMIA from 26.12.23 to 29.12.23.
- Organised IEEE SPAX funded event Cyber Sec Challenge'24 on 04-11-2024 & 05-11-2024.
- Organised Distinguished Lecture Program(DLP) on Privacy in Information Theory - An information theorist takes a tour of differential privacy. on 21.07.2025 by Anand D Sarvate, Professor, Department of Electrical and Computer Engineering, Rutgers University. New Jersey.

FDP,STTP, WORKSHOP, SEMINARS Attended

- Attended online Faculty Development Programme on ‘Big Data and Analytics’ of 40 hours duration, jointly organized by Indian Institute of Information Technology, Nagpur and the Electronics and ICT Academy (Phase-II), Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, during November 17-28, 2025.

- Attended five days workshop on AI to Generative AI in Research perspectives organised by the Centre for Artificial Intelligence & Data Science Research & Applications(CAInDRA) in collaboration with Department of Information Science and Technology, College of Engineering Guindy, Anna University from 23.06.25 to 27.06.2025

<ul style="list-style-type: none"> ● Participated in the ICTAcademy FDP on Data Analytics using Python,19 August 2024-23 August 2024.
<ul style="list-style-type: none"> ● participated and successfully completed the 6-day Online UHV-II FDP organized by All India Council for Technical Education (AICTE) from 16th October to 21st October 2023.
<ul style="list-style-type: none"> ● Online workshop on “Data Analytics with Python” organized by IEEE Student Branch Chapter,NIT Tiruchirappalli during 14th – 15th October,2023.
<ul style="list-style-type: none"> ● Online Short term course on “Exploratory Data analysis for Deep learning using Python and Microsoft Power BI” conducted by the and Engineering, NIT Warangal from 29-05-2023 to 02-06-2023.
<ul style="list-style-type: none"> ● Attended Online Short-Term Course on “Data Visualization for Deep Learning Using Power BI and Tableau” conducted by the Dept. of CSE, NIT Warangal and Dept.IT. VNRVJIET, Hyderabad in association with CCE, NIT Warangal from 23-02-2023 to 28-02-2023.
<ul style="list-style-type: none"> ● participated & completed successfully FDP on "NO CODE AND LOW CODE MACHINE LEARNING TECHNIQUES" held from 19-12-2022 to 23-12-2022 at Sri Sairam Engineering College and L&T Mind Tree, Chennai.
<ul style="list-style-type: none"> ● Attended faculty development workshop on Product Engineering for Real Life problems” held at IIT Madras Research Park, Chennai from 28.09.22 to 29.09.22.
<ul style="list-style-type: none"> ● Participated in the Two Weeks International Virtual FDP on DATA SCIENCE : A REVELATION OF THE MODERN DIGITAL ERA, organized by the Department of Computer Science & Applications (MCA), SRM Institute of Science & Technology, Ramapuram Campus from 29-08-2022 to 10-09-2022.
<ul style="list-style-type: none"> ● Attended the certification program entitled “6-Days Certification Program on Internet of things & Machine Learning”, held from 01.02.2022 to 07.02.2022 through online pedagogy at SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY"
<ul style="list-style-type: none"> ● Two Days FDP on "RECENT TRENDS IN RESEARCH" held during 09th and 10th February, 2022. SRM Institute of Science and Technology, Vadapalani campus, Chennai.
<ul style="list-style-type: none"> ● participated in a two - weeks Online Joint Faculty Development Programme on “IoT & Applications (Smart Systems)” jointly organised by Electronics and ICT Academies held from 14 - 25 February, 2022 under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India.
<p>ONLINE SIX-DAY STTP on “IoT Technologies and Analytics”, Anna University, Department of Information Science and Technology, College of Engineering (CEG), from 18-01-2022 to 24-01-2022</p>
<ul style="list-style-type: none"> ● Attended ATAL FDP on "Sensor Data Analytics" from 29/11/2021 to 03/12/2021 at Indian Institute of Information Technology Kottayam
<ul style="list-style-type: none"> ● Participated in Faculty Development Programme on “Deep Learning & Applications (Parallel Architectures)” Aug 23- Sept 3, 2021 under the “Scheme of financial assistance for setting up of Electronics and ICT

Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India.
<ul style="list-style-type: none"> ● ATAL FDP on "Data Analytics using Python/R Programming" from 23/08/2021 to 27/08/2021 at National Institute of Technology Puducherry Karaikal
<ul style="list-style-type: none"> ● Attended FDP on : IOT for Healthcare Applications – organised by IEEE Madras Section, hosted by National Engineering College, Kovilpatti during 05 – 08 August 2021.
<ul style="list-style-type: none"> ● IEEE international workshop on "Natural Inspired Computing Applied to Engineering" conducted by SEC, organised by IEEE CIS Madras Chapter from 23.07.2021 - 26.07.2021
<ul style="list-style-type: none"> ● Participated in the International FDP on "Data Science and Machine Learning from 13-17 July 2021 Organized by Bannari Amman Institute of Technology
<ul style="list-style-type: none"> ● Atal FDP on "Patent Law for Engineers and Researchers" form 26.07.2021 - 30.07.2021 conducted by Prathyusha College of Engineering
<ul style="list-style-type: none"> ● Atal FDP on "IoT for Agriculture" conducted by NIRMA university from 19.07.2021 - 23.07.2021
<ul style="list-style-type: none"> ● Two Days Hands-on Workshop on Routers and Switches Using Cisco Packet Tracer 16th & 17th July 2021 Organized by IEEE Communications Society, Madras Chapter.
<ul style="list-style-type: none"> ● AICTE Workshop - FDP -Incorporating Universal Human Values in Education from 28.06.2021-.02.07.2021
<ul style="list-style-type: none"> ● Attended a 3 week International FDP on Research Perspectives on AI, ML, Data Science and IoT organized by KL University from 17/05/2021 to 05/06/2021
<ul style="list-style-type: none"> ● Faculty Development Programme on “Creative and Innovative Teaching Strategies for the New Normal” organized by the Institution’s Innovation Council of Sri Sivasubramaniya Nadar College of Engineering during May 24-31,2021.
<ul style="list-style-type: none"> ● STTP on “Emerging Trends and Research Challenges in Next Generation Wireless Networks” from 29.03.21 to 03.04.21
<ul style="list-style-type: none"> ● STTP on “Exploring Real world Applications of Block Chain Technology with Machine Learning Model organised by Department of Information Technology, KLN College of Engineering from 22-27 February 2021
<ul style="list-style-type: none"> ● STTP on “Machine Learning for Data Analysis in Industry 4.0 from 8.2.21 to 12.2. 21 at Sri Sairam Engineering College
<ul style="list-style-type: none"> ● FDP on “Artificial Intelligence and Ambient Intelligence” from 25.01.2021 to 06.02.2021 (Two weeks) from Hindustan Institute of Technology and Science
<ul style="list-style-type: none"> ● STTP on "Secure data optimization in IOT using GNU radio companion and USRP" from 18.1.2021-23.1.2021 organized by "Excel Engineering College"
<ul style="list-style-type: none"> ● STTP on STTP on "Internet of Things with Blockchain Applications and Challenges" from 04.01.21 to 09.01.21 Velalar College of Engineering and Technology
<ul style="list-style-type: none"> ● STTP on “AI in Healthcare” from 14.12 2020 to 20.12.2020 organized by SSN College of Engineering.

<ul style="list-style-type: none"> ● Atal FDP on Block Chain organised by Indian Institute of Technology Patna, from 20.12 .2020 to 24.12.2020
<ul style="list-style-type: none"> ● Two weeks AICTE sponsored FDP on Cutting Edge Trends in Deep learning approaches” from 07.12.2020 to 22.12.2020 organized by Kongu Engineering College
<ul style="list-style-type: none"> ● ATAL FDP on Augmented Reality (AR)/Virtual Reality (VR) Organised by Gandhi Institute Of Technology And Management Gitam Off Campus Bengaluru from 23.11.2020 to 27.11.2020
<ul style="list-style-type: none"> ● ATAL FDP on Data Science Organised by Institute of Road Transport on 2.11.2020 to 6.11.2020
<ul style="list-style-type: none"> ● ATAL FDP on Artificial Intelligence Organised by Vellore Institute of Technnology from 21.09.2020 to 25.09.2020
<ul style="list-style-type: none"> ● FDP on Data Science and Artificial Intelligence Organised by Rajalakshmi Institute of Technology from 24.08.2020 to 28.08.2020
<ul style="list-style-type: none"> ● STTP on Deep learning Applications and Challenges in Big Data Analytics Organised by Vellalar College of Engineering and Technology from 17.08.2020 to 22.08.2020
<ul style="list-style-type: none"> ● FDP on Internet of Things Organised by Eashwari Engineering College from 18.07.2020 to 25.07.2020
<ul style="list-style-type: none"> ● FDP on Data Science using Python Organised by Amrita College of Engineering and Technology, Nagercoil from 17.06.2020 to 25.06.2020
<ul style="list-style-type: none"> ● FDP on Data Analytics with Python Organised by NITTTR Chandigarh from 22.06.2020 to 26.06.2020
<ul style="list-style-type: none"> ● FDP on Machine Learning and Cloud Infrastructure Organised by Jeppiar Engineering College from 06.07.2020-10.07.2020
<ul style="list-style-type: none"> ● FDP on Computer Vision using Deep Learning Organised by Panimalar Engineering College from 26.06.2020 to 30.06.2020
<ul style="list-style-type: none"> ● FDP on Recent Trends in Information, Computing, Communication and Teaching methodology competency Organised by Sri Sairam Engineering College from 04.05.2020 to 17.05.2020
<ul style="list-style-type: none"> ● FDP on Internet of Things Organised by NITTTR Chandigarh from 15/4/20 to 19/4/20
<ul style="list-style-type: none"> ● FDP -“Understanding Data Analytics with Real-Life Cases” organized by St. Joseph’s College of Engineering in association with IEEE Control System Society Student from 28/5/2020 to 30/5/2020.

<ul style="list-style-type: none">• Workshop - High Performance Computing for all organized by Indian Institute of Information Technology Design and Manufacturing(IIITDM), Kancheepuram from 2/12/2019 -6/12/2019
<ul style="list-style-type: none">• FDP on Introduction to Mobile Application Development Conducted by ICT ACADEMY at Dhanalakshmi college of Engineering 07.03.2018 to 08.03.2018
<ul style="list-style-type: none">• FDP on Introduction to R Programming Conducted by ICT ACADEMY at Womens Christian College from 18.01.2018 to 19.01.2018

