


## PROFILE

<b>Name &amp; Photo:</b>	<div style="text-align: center;">  <p><b>J.RANJANI- ET08IT03</b></p> </div>
<b>Qualification:</b>	M.C.A, M. Phil, M. Tech
<b>Designation:</b>	Assistant Professor - I
<b>Area of Specialization:</b>	C Programming, C++, Web BASED Technology, Data Structures, Object Oriented Programming (JAVA) and Python Programming, Scripting Languages, Computer Networks.
<b>Year of Experience: :</b>	<b>Teaching</b>  17.5 YEARS  <b>Industry: Nil</b>
<b>No. of Workshops / FDP Attended:</b>	41
<b>No. of Conference Attended:</b>	34
<b>Publications:</b>	<b>Journal:</b> International : 8 National : 4 <b>Conference:</b> National: 17 International: 17

<b>Staff Achievements:</b>	<ul style="list-style-type: none"> <li>• Acted as a Coordinator for 2019-2023 batches Symposium</li> <li>• Acted as a Project coordinator for 2019-2023 batch students.</li> <li>• Acted as an Organizing member for the TNSCST Sponsored two days workshop on “Machine learning and Deep Learning”</li> <li>• Acted as an Organizing member for the ISTE Sponsored five days STTP on “Machine learning for data Analysis in industry 4.0”</li> <li>• Acted as an Organizing member for the five days FDP on “Research perspectives on data science”</li> <li>• Acted as an Organizing member for the ATAL FDP ON <b>AUGMENTED REALITY / VIRTUAL REALITY AND ITS APPLICATIONS</b></li> <li>• Act as a Class Coordinator for the 2019 -2023 batch students</li> <li>• Acted as an EVENT CO-ORDINATOR to the International Conference on COMPUTING AND COMMUNICATION TECHNOLOGIES (ICCCT’19) and (ICCCT’21)</li> <li>• Obtained Distinction in M.Tech Programme.</li> <li>• Secured 100% results in Anna university examinations many times.</li> <li>• Delivered a lecture on “Numpy,SciPy,Matplotlib Concepts in python” at ECE Dept, Sri Sairam Engineering College</li> <li>• Published paper in reputed International Journals ,Presented papers in various National and International Conferences,</li> <li>• Acted as Conference Coordinator during 2017-2018 and Symposium coordinator at 2012.</li> <li>• Acted as project coordinator during 2007-2010,2015-2018.</li> </ul>
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### Professional Experience

Sl. No	College / Organization	Designation	Period	
			From	To
1	T.K.G.Arts College	Lecturer	5/08/2002	1/06/2004
2	Adhiparasakthi Engineering College, Melmaruvathur	Lecturer	01/07/2004	30/11/2007
3	Sri Sai Ram Engineering College	Assistant Professor-III	31/01/2008	31/07/2009
4	Sri Sai Ram Engineering College	Assistant Professor-II	01.08.2009	31.07.2013
5	Sri Sai Ram Engineering College	Assistant Professor-I	01.08.2013	Till Date

### Academic Record

University	Degree/ Diploma	Year	Field of Specialization
SRM University	M.Tech	May 2016	Computer Science
Alagappa University	M. Phil	August 2007	Computer Science

Bharathidasan University	MCA	May 2001	Computer Applications
Madras University	B. Sc(Physics)	May 1998	Physics

### **Papers published in the National Journal / International Journal**

#### **NATIONAL JOURNAL:**

- Semantic Web Search Engine for Retrieval for Text Document using Hierarchical Clustering, SSEC TECH Journal – 2009 Volume 8, 2009,ISSN 0975-2846.
- Robust Scene Text Recognition With Sparse Belief Propagation, ELYSIUM JOURNAL OF ENGINEERING RESEARCH & MANAGEMENT, Volume 2, Issue 3, June 2015.
- A Web Service with Self-Learning Ontological Process (WS – SLOP), International Journal of Latest Trends in Engineering and Technology(IJLTET),ISSN:2278-621X
- An approach for dynamically load balanced flow scheduling (DLBS) in cloud,International Journal of Engineering & Technology,7(2.33) 600-602.

**DOI: 10.14419/ijet.v7i2.33.14844 Published on: 08-06-2018.**

#### **SCOPUS INDEXED JOURNAL:**

- **Combination of NumPy, SciPy and Matplotlib a good alternative methodology of MATLAB – A comparative Analysis. Date added to IEEE Xplore: 20 June 2019.DOI:10.1109/ICIICT1.2019.8741475.**
- <https://ieeexplore.ieee.org/document/8741475>
- **A Diagnose system for Skin Lesion using Deep Convolution Neural Network (DCNN) Article Info Volume 83 Page Number: 8132 - 8137 Publication Issue: May - June 2020 ISSN: 0193-4120 Page No. 8132 - 8137**
- **Smart Surveillance Camera to Detect Theft Activities in ATM Centers, Article Info Volume 83 Page Number: 13853 - 13858 Publication Issue: March - April 2020,**
- **ISSN: 0193-4120 Page No. 13853 - 13858**
- **Deep learning based Pathogon infestation detection in plants, 5th International Conference on Intelligent Computing & Control Systems,ICICCS 2021, 1428-1433, INSPEC Accession Number: 20764030, DOI: 10.1109/ICICCS51141.2021.9432106**
- <https://ieeexplore.ieee.org/document/9432106>

- **Illegal Fishing Detection using Neural Network,2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings, 2022**
- **A Deep study of Data science related problems, application and machine learning algorithms utilized in Data science, 2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings, 2022**
- **Transportation Management System, Published in: 2022 1st International Conference on Computational Science and Technology (ICCST),Date of Conference: 09-10 November 2022,Date Added to IEEE Xplore: 14 February 2023, DOI: 10.1109/ICCST55948.2022.10040309**
- **G-GET: All In One Donation App,Published in: 2022 1st International Conference on Computational Science and Technology (ICCST),Date of Conference: 09-10 November 2022,Date Added to IEEE Xplore: 14 February 2023.DOI: 10.1109/ICCST55948.2022.10040335**

#### **UGC CARE JOURNAL:**

- **An Overview and Application of Block chain Technology for financial infrastructure - Distributed Digital Ledger System (DDLs)- Studies in Indian Place Names.february 2020**
- **Ideal growth of Crops by observing Farm using IOT system, Publication date 2019/12/30 Journal of the Gujarat Research Society,Volume 21,Issue 17 Pages 1815-1825**
- **CAGS-Common People's Access To Government Schemes, Ilkogretim Online - Elementary Education Online, 2020; Vol 19 (Issue 2): pp. 1793-1799, doi: 10.17051/ilkonline.2020.02.696762**
- **Agricultural E Commerce Website In India, Ilkogretim Online - Elementary Education Online, 2021; Vol 20 (Issue 1): pp. 5010-5015 <http://ilkogretim-online.org> , doi: 10.17051/ilkonline.2021.01.535**
- **Automatic Detection Of Covid-19 Using X-Ray And Ct Images (Neural Network)**
- **Ilkogretim Online - Elementary Education Online, 2021; Vol 20 (Issue 1): pp. 4925-4931 <http://ilkogretim-online.org> doi: 10.17051/ilkonline.2021.01.526**

#### **BOOK CHAPTER:**

- **Fuel Cost Optimization Using IoT in Air Travel**  
Kalaichelvi, P., Akila, V., Ranjani, J., Sowmiya, S., Divya, C. **Industrial Internet of Things (IIoT): Intelligent Analytics for Predictive Maintenance, 2021, pp. 249–279**
- **Impact of IoT to Meet Challenges in Drone Delivery System**  
Ranjani, J., Kalaichelvi, P., Kalaiselvi, V.K.G., Sree, D., Swathi, S.  
Industrial Internet of Things (IIoT): Intelligent Analytics for Predictive Maintenance, 2021, pp. 203–228

### **Papers Presented in the National and International Conferences**

1. Presented a paper titled “Query Processing using FDBS” in Velammal College of Management and Computer studies.
2. Presentea a paper titled”comparison and implementation of routing protocol techniques” at karpagam college of engineering in international conference
3. Presented a paper titled “Vehicle Tracking system Using GPS/AVL” in Saveetha Engineering College.
4. Presented a paper titled “Security for Government and Military agencies, Service Providers using Optical Networking” at PSNA College of Engineering & Technology.
5. Presented a paper titled “Security Risk and Solutions in Cloud Computing based on Network and Application Level” at Saveetha Engineering College, Chennai
6. Presented a paper titled “Cloud Computing Perspectives and Comparison Study of various Cloud Computing Service Providers” at Adhiparasakthi Engineering College, Melmaruvathur.
7. Presented a paper titled “Robust Scene Text Recognition With Sparse Belief Propagation” at Sri Sai ram engineering college.
8. Presented a paper titled “A web service self learning ontological process” at Sri Sai ram engineering college ,2016.
9. Presented a paper titled “Real Time Transformer Health Measuring system using IoT Technology” at Sri Sai ram engineering college,2018.
10. Presented a paper titled “Load-Balanced Flow Scheduling for Big Data Centers Dynamically in Cloud” at Sri Sai ram engineering college,2018.
11. Presented a paper titled “Secure access policies based data de-duplication system” at Sri Sai ram engineering college,2018.

12. Presented a paper titled “Shade hope-a protection estimation Model for transportation as a overhaul shade ” at Sri Sai ram engineering college,2018.
13. Presented a paper titled “Fast and scalable Query processing with strong privacy protection for cloud computing ” at Sri Sai ram engineering college.
14. Presented a paper titled “A Diagnose system for Skin Lesion using Deep Convolution Neural Network (DCNN) ” at Sri Sai ram engineering college,2018.
15. **Presented a paper on International conference, titled “ROAD ACCIDENTS PREVENTION USING TRAFFIC SIGNAL” at Sri Sai ram engineering college in 2019.**
16. **Presented a paper on International conference, titled “A DISTRIBUTED TRUTHFUL AUCTION MECHANISM FOR TASK ALLOCATION IN BANK TRANSACTION” at Sri Sai ram engineering college in 2019.**
17. **Presented a paper on International conference, titled “Random Forest Algorithm using Credit Card Fraud Detection” at Jerusalem college of Engineering, Narayanapuram, Pallikaranai,Chennai-600100.**
18. **Presented a paper on International conference, titled “combination of numpy,scipy and Matplotlib/Pylab – a good alternative methodology to MatLab- A Comparative analysis” at St peters college of Engineering, Chennai.**
19. **Presented a paper on National conference, titled “Automated fire detection and controlling system” at R.M.K Engineering College, Chennai.**
20. **Presented a paper on International Conference, titled “Credit card fraud detection using random forest algorithm” at Jeruselam College of Engineering.**
21. **Presented a paper on International Conference,titled “A Diagnose system for Skin Lesion using Deep Convolution Neural Network (DCNN)” at Sri Sairam Engineering College**
22. **Presented a paper on International Conference, titled “Smart Surveillance Camera to Detect Theft Activities in ATM Centers, at Sri Sairam Engineering College**
23. **Presented a paper on International e-Conference ,titled “Agricultural E commerce Website in India” on 6/06/2021 at St peter’s Institute of higher education and research.chennai**
24. **Presented a paper on National Conference,titled “Road maintenance record keeping system” at Sri Sairam Engineering College**
25. **Presented a paper on National Conference,titled “An overview and application of block chain technology for financial infrastructure – Distributed Digital Ledger System(DDLS)” at Sri Sairam Engineering College.**

26. **Presented a paper on International Conference, titled “Twitter user Bullying detection”** at R.M.K Engineering College on 26<sup>th</sup> and 27<sup>th</sup> march 2021.
27. **Presented a paper on International Conference, titled “Secure E-Bidding System”** at Eswari Engineering College on 9<sup>th</sup> and 10<sup>th</sup> April 2021.
28. **Presented a paper on International Conference, titled “CAGS Common People Access to Government Schemes ”** at Eswari Engineering College on 9<sup>th</sup> and 10<sup>th</sup> April 2021.
29. **Presented a paper on International Conference, titled “Tracking of Army soliders using LORA technology ”** at Eswari Engineering College on 9<sup>th</sup> and 10<sup>th</sup> April 2021.
30. **Presented a paper on International Conference, titled “Mobile application for donation management ”** at Eswari Engineering College on 9<sup>th</sup> and 10<sup>th</sup> April 2021.
31. **Presented a paper on 5th International Conference on Intelligent Computing & Control Systems, ICICCS 2021, titled “Deep learning based Pathogon infestation detection in plants”** at Vaigai College of Engineering, Madurai, May 6-8, 2021.
32. **Presented a paper on International IEEE Conference, titled “CROP YIELD PREDICTION USING MACHINE”** at SRI SAIRAM ENGINEERING COLLEGE
  - **Transportation Management System, Published in: 2022 1st International Conference on Computational Science and Technology (ICCST), Date of Conference: 09-10 November 2022, Date Added to IEEE Xplore: 14 February 2023, DOI: 10.1109/ICCST55948.2022.10040309**
  - **34. G-GET: All In One Donation App, Published in: 2022 1st International Conference on Computational Science and Technology (ICCST), Date of Conference: 09-10 November 2022, Date Added to IEEE Xplore: 14 February 2023. DOI: 10.1109/ICCST55948.2022.10040335**

#### **Workshop/FDP:**

1. Technical seminar on “Information security” at Adhiparasakthi engineering college.
2. Training Program in “JAVA” ,Sun Micro Systems.
3. Technical seminar on “Data Warehousing and Data Mining” at Adhiparasakthi engineering college.
4. Faculty Development Programme on “Information Security and Cyber Forensics” at Valliammai Engineering College.
5. Staff Development Programme on “Instructional Design & Delivery” at Sri Sairam Engineering College.

6. Workshop on “Java and J2EE” at Vamsoft Technology
7. Faculty Development Programme on “Advanced Features on .net ” at SRM University.
8. Faculty Development Programme on “Network Technologies” at Saveetha Engineering College fro 21<sup>st</sup> -28<sup>th</sup> April 2010.
9. Faculty Development Programme on “Middleware and Web services” at Easwari Engineering College.
10. Staff Development Programme on “Web Services” at Sri Sai Ram Engineering College.
11. National seminar on “Research issues in Web services” at at Sri Sai Ram Engineering College.
12. Staff Development Programme on “CASE Tools Environments and Workbenches” at Sri Sai Ram Engineering College.
13. AICTE sponsored Staff Development Programme on “Computer Networks” at Sri Sai Ram Institute of Technology
14. " FDP On Oracle - Java Fundamentals and Java Programming @ RAJALAKSHMI INSTITUTE OF TECHNOLOGY, From 17th July to 21 st June 2017.
15. ILXPlore Orintation Program for JAVA, from 22 Jan 2018 to 25Jan 2018 at TCSILP.
16. Five days AICTE sponsored Staff Development Programme on “Entrepreneurship Career Development Program” at Sri Sai Ram Institute of Management studies.
17. The Department of Computer Science and Engineering conducted the Two weeks AICTE Sponsored Faculty Development Training Programme (7.6.2019 -20.6.2019) on “DATA SCIENCE AND EXPLORATORY DATA ANALYSIS WITH R AND PYTHON” at Sri sairam engineering college.
18. TWO Weeks FDP on “**Recent advancement in Technical Domains**” at SRM institute of Science & Terchnology,Ramapuram from 24.8.20 to 7.9.20
19. **One week FDP on “Emerging Trends in Data science and IOT”** at ARKA JAIN University,Jamshedpur, from 20.7.20 TO 25.7.20
20. 5 days FDP on “**Building Intelligent applications with Deep Learning with PyTorch**” at Rajalakshmi Institute of Technology, from 12.10.2020 - 17.10.2020
21. 5 days FDP on “**Research Perspectives in Maching Intelligence and Computing**” at Sri Sairam Institute of Technology, from 27.10.2020 - 31.10.2020
22. 5 days ATAL FDP on “**data Sciences**”, at IRTT, from 2020-11-2 to 202011
23. 5 days ATAL FDP on “**Artificial Intelligence**” at CSIR- Advanced Materials and Processes research Institute, Bhopal.from 2020-11-16 to 2020



24. 6 days Online STTP on “Machine Learning with Python in Data Science - Applications and Research Perspectives” at SRM Institute of Science and Technology, from 19.10.20 to 24.10.20
25. 6 days Online FDP on “Service Oriented Applications: Concept, Technology, Design and Development” at R.M.K. ENGINEERING COLLEGE, from 12.10.20 to 17.10.20
26. 6 days Online FDO on “Emerging Trends in Data Science & IoT” at Ara ain University amshedur harhand, from 20.7.20 to 25.7.20
27. 15 days International FDP on “Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development”, at Bipin Tripathi Kumaon Institute of Technology Dwarahat Almora (Uttarakhand), INDIA,from 26/10/20 to 7/11/20
28. 6 days AICTE STTP on “Ingraining wisdom for engineering and education” at Kalajnarkarunanidhi Institute of Technology, coimbatore, from 16/11/20 to 21/11/20
29. 7 days AICTE STTP on “Social Network Analysis - Emerging Trends and Challenges”, at Knowledge Institute of Technology, from 02.11.2020 to 07.11.2020.
30. 5 days AICTE STTP on “Privacy and security”, at ANITS, Andrapradesh, from 5/10/20 to 10/10/20
31. 5 days AICTE STTP on ““Leveraging the Power of Serverless Computing: Architectural and Economic Impact, Research Challenges and Issues” at Kongu Engineering College, from 23.11.2020 – 28.11.2020
32. 15 days FDP on “RECENT ADVANCEMENT IN TECHNICAL DOMAINS SRMIST” at SRMIST, Ramapuram from 24.08.2020 to 07.09.2020.
33. 5 days ATAL FDP on” Machine Learning” at R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY, from 2020-12-7 to 2020-12-11
34. **5 days UHV FDP on** Universal Human Values for DEEKSHARAMBH(Student Induction Program) at NATIONAL INSTITUTE OF TECHNOLOGY PATNA, from 23-27 November 2020
35. 6 days AICTE STTP on “AI Based novel power system” at sengunther Enggineering college,from 30-11-20 to 5-12-20
36. 7 days FDP on “ALGORITHMS,COMPILER DESIGN AND AI”,at VALLIAMMAI ENGINEERING COLLEGE from 9-12-20 TO 15-12-20
37. 5 days AICTE STTP on “introduction to big data analytics and DEEP LEARNING” at Bednera-Amravati, Maharashtra, from 21/12/20 to 26/12/20

38. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Towards 5G & Beyond with IoT and Machine Learning" from 2021-7-26 to 2021-7-30 at School of Engineering and Technology, Central University of Haryana.
39. Two Weeks International fdp on “Recent Trends and challenges in AI,IOT and BLOACK CHAIN” Organized by department of IT, held on 9<sup>th</sup> to 18<sup>th</sup> Feb 2022.
40. One week FDP on Machine Learning and Deep Learning” Organized by department of IT, held on 21st to 26<sup>th</sup> Feb 2022.
41. One week FDP on “Computer vision and Natural Language” Organized by department of IT, held on 21st to 8<sup>th</sup> to 18<sup>th</sup> August 2022.

J.Ranjani

AP-I/IT