

**Name: Dr R Ramya**

**Degree:** M.Tech, Ph D,

**Designation:** Associate Professor

**Experience:** 18 yrs 2 months

**Area of Specialization:** Data Science, Machine Learning, Cloud Computing, Image Processing

**Contact (Email id):** ramyar@stjosephs.ac.in

**Subjects Handled:**

- ❖ Internet Programming.
- ❖ Grid and Cloud Computing.
- ❖ Operating Systems.
- ❖ System Software.
- ❖ Operating Systems.
- ❖ Fundamentals of Computer Programming.
- ❖ Software Project and Process management.
- ❖ Object Oriented Programming.
- ❖ Genetic Programming and its applications
- ❖ Artificial Intelligence
- ❖ Computer Organization and Architecture
- ❖ Data Science
- ❖ Data Mining
- ❖ Advanced Programming Paradigm
- ❖ Java Programming
- ❖ Programming in C

## **Publications (Journals & Conferences):**

### **Journals:**

- [1] Ramya, R., & Sasikala, T. (2014), "Experimenting Biocryptic System using Similarity Distance Measure Functions," International Conference on Advanced Computing (ICoAC'14), Madras Institute of Technology, Chennai, during 17<sup>th</sup> to 19<sup>th</sup> December.
- [2] Ramya, R., & Sasikala, T. (2015), "Implementing A Novel Biometric Cryptosystem using Similarity Distance Measure Function Focusing on the Quantization Stage," Indian Journal of Science and Technology, vol. 9, pp. 1-9, December.
- [3] Ramya, R., & Sasikala, T. (2017), "Observation of a New Solution for Handling Biometric Data by Experimenting with Distance Similarity Measures," International Journal of Control Theory and Applications, vol. 10, pp. 277-284, March.
- [4] Ramya, R., & Sasikala, T. , "A Comparative analysis of similarity distance measure functions for biocryptic authentication in cloud databases", Cluster Computing (Springer), the Journal of Networks, Software Tools and Applications, Vol 22,No 5,pp 12147-12155,Jan 2019,doi:<https://doi.org/10.1007/s10586-017-1568-y>,Impact factor:2.04
- [5] Ramya .R and Sasikala .T , "An efficient Minkowski distance based matching with Merkle hash tree authentication for biometric recognition in cloud computing", Soft Computing (Springer), A Fusion of Foundations, Methodologies and Applications, Vol 23,No 24,pp 13423-13431,March,2019,doi:<https://doi.org/10.1007/s00500-019-03881-z>,Impact factor:3.64
- [6] Dr. R Ramya, Yash Tadiyal, Sanjeet Bhatia, S Subash (2021),"Immediate Reporting of Ongoing Criminal Activity Through Mobile Application", Paiduema Journal of Research,Vol 14,No 5, 498-503
- [7] Dr.R Ramya, Shubham Raj Bhatt, Shubham Singh, Sourav Kar (2021),"Sentiment Analysis For Twitter Dataset Using NLP In Machine Learning", Paiduema Journal of Research,Vol 14,No 5, 592-597
- [8] Ramya R,Karthik Reddy Duddukunta,Sai Vikas,Vishnu Sai(2023)," Ovarian Cancer Subtypes Reimagined: Leveraging CNNs for Advanced Classification and Outlier Detection", Journal of Chemical Health Risks, pp 3235-3242.

[9] Ramya R, Nikhil Ravichandran, Surya Kumar, Varun (2023), "Particle Swarm Optimization Technique to Detect Brain Tumor using YOLO Technology", Journal of Propulsion Technology, Vol 44, No 06, pp.2012-2022.

[10] L. Sharmila, Maya P. Shelke, R. Venkatesan, R. Ramya, G. Umadevi, M. V. Ishwarya. "Computer Modeling Using Visualization of Measuring Method", Wireless Personal Communications, pp.1-14, 2024.

### **International Conferences**

[1] R. Ramya, "Evolving Bio-Inspired Robots for Keep Away Soccer through Genetic Programming," International Conference on Emerging Trends in Robotics and Communication Technologies-2010, Sathyabama University, Chennai, 03<sup>rd</sup> - 05<sup>th</sup>, December 2010. (IEEE Sponsored Conference)

[2] Ramya, R., & Sasikala, T. (2013), "Survey Findings on Recent Authentication Methods in Cloud Computing," International Conference on Mathematical Computer Engineering (ICMCE'13), organized by VIT University, Chennai, pp 92, during 29<sup>th</sup> and 30<sup>th</sup> November.

[3] Ramya, R., & Sasikala, T. (2018), "An Improved Method for analyzing and securing Biocryptic Data in Cloud Databases," International Conference on Innovations in Engineering and Sciences (ICIES'18), organized by Jeppiaar SRR Engineering College, Chennai, during 23<sup>rd</sup> and 24<sup>th</sup> March.

[4] Ramya R (2023), "Agricultural Crops Price Prediction and Visualization using Machine Learning", organized by Velammal Engineering College, Chennai on 11<sup>th</sup> April 2023.

[5] Ramya, R (2024), "Unveiling criminal intent through CCTV with Object Detection via YOLO-NAS", International Conference on Artificial Intelligence and Business Analytics in Thriving Industry 5.0", organized by SRM Institute of Science and Technology, Chennai on 12<sup>th</sup> September 2024.

[6] Ramya R (2024), "Vehicle Prediction for Bus Identification output from Route Testing Real Time Algorithm", International Conference on Sustainable Communication Networks and Application", IEEE sponsored Conference held from Dec 11<sup>th</sup>-13<sup>th</sup> 2024.

[7] Ramya R, Lilly Sheeba, Christian Selvan, Beulah Jayakumar (2024), "Counting the presence of the people in a real time contained area using Convolutional Neural Network", AIP Conference Proceedings 2802, 120015.

**Book/Book Chapters:**

[1] Dr T.Sasikala, Dr R Ramya (2021),”Cloud Reliability Engineering: Technologies and Tools- Enhancement of Security in Cloud Databases”, CRC Press Taylor and Francis Group, ISBN 9781003030973.

[2] Dr S Greethik,Dr L Sharmila, T.P Anish, Dr R Ramya(2023),”The Future of the Prompt Engineering”, Notion Press ( 14<sup>th</sup> August 2023).

**Patents Published:**

1. Dr R Ramya,”Smart Women Self Defense System using IOT Based Device”, 202241025471A
2. Dr R Ramya,”Secured Physical Uncountable Functions Framework using Machine Learning and IOT”,202341002105A
3. Dr R Ramya, “AI-Assisted Patient Monitoring System for Early Disease Detection”, 202421063943A

**Patents Grant:**

1. Dr R Ramya, “ IOT Based Early Warning Device for Landslide”,407571-001

**FDP Organized:**

1. Conducted 2 weeks **ISTE approved STTP** from Aug 9<sup>th</sup> to Aug 22<sup>nd</sup> 2021 in IoT and Machine Learning
2. Conducted 1 week **ISTE approved STTP** from July 6<sup>th</sup> to 11<sup>th</sup> 2022 in Machine Learning and Data Science.

**Funded Projects:**

Received project grant from **Tamil Nadu State Council for Science and Technology (TNSCST) 2018.**

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