

## FACULTY PROFILE

**Name** Dr.N.KUMARESH  
**Designation** Associate Professor  
**Department** MCA  
**Qualification** MCA.,M.Phil.,M.E.,Ph.D.  
**Experience** Teaching : 20 Years & Research : 10 Years  
**Area of Specialization** Knowledge Engineering , AI  
**Email ID** [kumareshn.rvitm@rvei.edu.in](mailto:kumareshn.rvitm@rvei.edu.in)  
**Contact No** 9894422610



### Education Qualification

S.No	Degree	University / College Name	Year of Passing
1	Ph.D(Computer Science)	Anna University - Chennai	2020
2	M.E(Software Engineering)	Anna University - Chennai	2010
3	M.Phil (Computer Science)	Periyar University - Salem	2007
4	MCA (Computer Applications)	Dr.SNS Rajalakshmi College of Arts & Science / Bharathiar University - Coimbatore	2006
5	B.Sc (Computer Science)	Dr.SNS Rajalakshmi College of Arts & Science / Bharathiar University - Coimbatore	2003

### Professional Experience

S.No	College / University Name	Designation	Duration
1	RV Institute of Technology and Management, Bangalore, Karnataka - 76	Associate Professor	01.12.2023 – Till date
2	Dr.NGP Arts and Science College, Coimbatore-48	Professor & HoD	01.10.2020 to 10.11.2023
3	Sri Ramakrishna Institute of Technology, Coimbatore -10.	Assistant Professor ( Selection Grade)	01.11.2012 to 30.09.2020
4	Sri Ramakrishna Institute of Technology, Coimbatore -10.	Assistant Professor (Senior Grade)	04.06.2007 to 31.10.2012
5	Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore	Lecturer	14.06.2006 to 28.05.2007

## FACULTY PROFILE

### **Subjects Taught:**

- Design and Analysis of Algorithms
- Advanced Data Structures
- Compiler Design
- Programming in Java
- Cloud Essentials
- Theory of Computation
- Operations Research
- Software Engineering
- Artificial Intelligence
- Machine Learning Techniques
- Data Mining and Warehousing

### **Publications**

#### **Journals**

- Arief Andy, Wan Azani Wan Mustafa, N.Kumaresh, “ GlauRSF-NET: A Hybrid Deep Learning Architecture for Early Glaucoma Detection Using Fundus Images”,(2026), Tsinghua Science and Technology (Accepted for Publication) – (Q1 – Scopus Indexed)
- Dr.N.Kumaresh, “ Transfer Learning with VGG16 on Ultrasound Datasets for Automated Breast Cancer Classifications with Grad-CAM Interpretability”,(2025), Journal of Robotics and Control, (Accepted for Publication) – (Q2 – Scopus Indexed)
- Dr.N.Kumaresh, Dr.N.Vanitha “AI-Powered Multi-Objective Dynamic Route Optimization for Smart Urban Mobility and Logistics”,(2025), International Journal For Multidisciplinary Research.
- Dr.Kumaresh, N., Angelin, R. M., M, D., Pramila, S., Nagrani, K. & None, G. (2025). “AI in Recruitment: Challenges of Transparency, Accountability and Fairness.” Advances in Consumer Research, 2(6), 2659-2665.
- N. Kumaresh, "A Review on Security Framework and Risks across the Big Data Life Cycle," Tuijin Jishu/Journal of Propulsion Technology, vol. 44, no. 6, pp. 6182- 6188, ISSN 1001-4055, 2023.
- N. Kumaresh, S. O. Manoj, S. T. Ramya, V. G. Pushparathi, and D. Praveena, "Memory and Time aware Automated Job Ontology Construction with reduced Ontology Size

## FACULTY PROFILE

Based Semantic Similarity," Journal of Xi'an Shiyou University, Natural Science Edition, vol. 17, no. 10, pp. 664-668, 2021.

- N. Kumaresh, "Artificial Intelligence and Internet of Things based Fourth Industrial Revolution," Vilnius Gediminas Technical University – Journal of Business, Management and Economics Engineering, vol. 20, no. 2, pp. 796-808, ISSN: 2669-2481, eISSN: 2669-249X, 2020.
- N. Kumaresh, P. Senthil Kumar, and M. Karthik Raj, "Remote Based Intelligent Agriculture Monitoring System," European Journal of Molecular & Clinical Medicine, vol. 7, no. 2, pp. 5236-5245, 2020.
- N. Kumaresh, "Assessment Strategies for Outcome-Based Education – An Empirical Approach," International Journal of Multidisciplinary Educational Research, vol. 09, no. 10(8), pp. 124-133, Oct. 2020, ISSN: 2277-7881.
- N. Kumaresh and P. S. Kumar, "Secure Proxy Re-Encryption Scheme for Big Data Storage in Medical Domain," Sambodhi Journal, vol. 43, no. 03(II), pp. 1-5, Jul.-Sep. 2020.
- N. Kumaresh and P. Senthil Kumar, "Mindtree Map – A tool for internal index of information about the human resources in the enterprises," Journal of the Maharaja Sayajirao University of Baroda, vol. 54, no. 2(III), 2020, ISSN: 0025-0422.
- N. Kumaresh, P. Senthil Kumar, and N. Vanitha, "Real-time poultry monitoring and health status identification using IoT," International Journal of Research and Analytical Reviews, vol. 07, no. 03, Sep. 2020, e-ISSN: 2348-1269.
- N. Kumaresh and P. S. Kumar, "Climate Adaptive Street Light Ignition Using Internet of Things," International Journal of Scientific Research in Engineering and Management, vol. 4, no. 6, pp. 1-6, June 2020. ISSN: 2582-3930.
- N. Kumaresh, J. A. Samath, and M. Mohamed Iqbal, "An Automatic Construction of Domain Ontology to Analyze Prerequisites of Jobs," International Journal of Enterprise Network Management, vol. 9, nos. 3/4, pp. 441-454, 2018.
- N. Kumaresh, P. S. Kumar, and J. Abdul Samath, "Certain Investigations on Automated Domain Ontology Construction," International Journal of Pure and Applied Mathematics, vol. 118, no. 11, pp. 581-585, 2018.
- N. Kumaresh, "An Empirical Approach – Distributed Mobility Management for Target Tracking in MANETs," Int. J. Comput. Appl., vol. 2, no. 6, pp. 17-21, Jun. 2010.

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- K. Karthikeyan, N. Kamalraj, and N. Kumaresh, "Occupational Health Hazards in BPO Professionals – Case Study," Journal of Industrial Pollution Control, vol. 25, no. 1, pp. 1-8, 2009.

### **Conferences**

- Rakesh , Kumaresh N, Vadiraj “Civic Drishti: A Crowdsourced Priority Engine for Transparent and Accountable Civic Issue Governance”, National Conference on Recent Innovations in Engineering-2025, Dept. of CSE and Allied branches, K.S. Institute of Technology Bengaluru-560109,2025, ISBN: 978-81-929425-2-0.
- Vadiraj , Kumaresh N, Rakesh, “KrishiSahay: Enhancing Agriculture Productivity through Blockchain Technologies”, National Conference on Recent Innovations in Engineering-2025, Dept. of CSE and Allied branches, K.S. Institute of Technology Bengaluru-560109,2025, ISBN: 978-81-929425-2-0.
- Baby GM , Kumaresh N, “Green Grantha: A Digital Medicinal and Herbal Guide”, National Conference on Recent Innovations in Engineering-2025, Dept. of CSE and Allied branches, K.S. Institute of Technology Bengaluru-560109,2025, ISBN: 978-81-929425-2-0.
- Keerthana B V , Kumaresh N,” AI-Powered Legal Document Analysis with an Integrated Trust and Safety Framework”, National Conference on Recent Innovations in Engineering-2025, Dept. of CSE and Allied branches, K.S. Institute of Technology Bengaluru-560109,2025, ISBN: 978-81-929425-2-0.
- Kiran. M and N. Kumaresh, "Implementation of Dynamic Role Based Access Control in Multi-Tenant Cloud," 2025 2nd International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS), Bangalore, India, 2025, pp. 1-6, doi: 10.1109/ICCAMS65118.2025.11234495.
- B. Rajak, N. Kumaresh, N. K. Hamid, M. B. Alazzam, S. I. Hassan and S. V, "AI-Driven Anomaly Detection for Secure Identity and Access Management in Cloud Platform," 2025 Global Conference in Emerging Technology (GINOTECH), PUNE, India, 2025, pp. 1-5, doi: 10.1109/GINOTECH63460.2025.11076807.
- N.Kumaresh,“Certain Investigations on Anti-spoofing Methods for Mitigating and Detecting Attacks at various stages of Fingerprint Verification Systems” National Conference on Data Science & Analytics - NCDA 2024,held in Sri Ramakrishna College of Arts and Science, Coimbatore on 5th March 2024.(ISBN: 978-93-6126-170-1)
- N. Kumaresh, "A Review on Security Framework and Risks across the Big Data Life Cycle," in Proceedings of the International Conference on Computational Intelligence

## FACULTY PROFILE

and Communication Technologies (ICCICT-2K24), Coimbatore, India, 2024, pp. 19-20, ISBN: 978-81-966306-6-9.

- N. Kumaresh, "Real-Time Hand Gestures Recognition using Linear Optical Sensor and Long Short-Term Memory Recurrent Neural Network," in Proc. National Conference on Advanced Computing Sciences, Dr. N.G.P. Arts and Science College, Coimbatore, India, Mar. 16, 2023, ISBN: 978-81-962322-6-9.
- N. Kumaresh, "Real Time Congestion Level Detection and Adaptive Route Planning," in Proc. National Conf. Adv. Comput. Sci., Dr. N.G.P. Arts and Science College, Coimbatore, India, Mar. 2023, ISBN: 978-81-962322-6-9.
- Presented a paper titled "Low-Cost Scratch Remover in Automobiles using Tensor Flow – A Machine Learning Approach" at the IEEE YESIST 2019 held at Sri Ramakrishna Institute of Technology, Coimbatore on 15th March 2019.
- Presented a paper titled "Real-time Poultry Monitoring and Health Status Identification using IOT" at the Global Summit on Science Technology, Engineering and Management (GS STEM 2018) held at Sri Ramakrishna Institute of Technology, Coimbatore on 3rd May 2018.
- Presented a paper titled "Analysis of Certificate Courses Proposals Using Clustering Algorithms", in the National Conference on Recent Trends in Informatics (NCRTI -2018) held on 19th March 2018, Organized by Alagappa University, Karaikudi.
- Presented a paper titled "Certain Investigations on Automated Domain Ontology Construction", in the SEEE Sponsored 12th International Conference on Intelligent Systems and Control (ISCO) on 5th and 6th January 2018 organized by the Department of Mechanical Engineering, Karpagam College of Engineering, Coimbatore, India.

### **Patents**

- Title: Innovative VR Headset Shape with IoT Integration for Enhanced Human-Computer Interaction  
Application Number: 448986-001 (Indian Design Patent)  
Applicant Name: Dr.N.Kumaresh  
Date of Publication: 06/06/2025
- Title: A System and a Method for Adaptive Speed Limit Adjustment  
Application Number: 202541070958 (Indian Patent)  
Applicant Name: Dr.N.Kumaresh  
Date of Publication: 01/08/2025

## **FACULTY PROFILE**

- Title : Deep Learning -Based Image Segmentation for Automated Tumor Detection in Radiology  
Application Number: 202541093829 (Indian Patent)  
Applicant Name : Dr.N.Kumaresh  
Date of Publication:31/10/2025

### **Books / Chapters**

#### **Books Published**

- E-Business and Cyber Laws Perfect Paperback , Redshine Publication (January 2022) by Dr. N. Kumaresh (Author), Dr. Mohammad Rauf, Dr. K. Srinivasan, Dr. G. Arnone, (Author), Dr. Arti Chudamanrao (Author)

#### **Book Chapters**

- Dr.N.Kumaresh, "Image Segmentation Algorithms for Healthcare Applications: Enhancing Precision in Diagnostics and Treatment", IET Digital Library - Exploring Intelligent Healthcare with Quantum Computing, September 2024. [https://doi.org/10.1049/PBHE060E\\_ch4](https://doi.org/10.1049/PBHE060E_ch4)
- Vanitha, N., Kiruthika, R., & Kumaresh, N. ,”AI-Based Decision Making for Enhancing Women Menopause Care at Workplace.” In K. Tennin, S. Kumar A.V., S. Ray, & A. Mishra (Eds.), Supporting Women's Health and Wellbeing in the Workplace (pp. 185-214). IGI Global Scientific Publishing. January 2026. <https://doi.org/10.4018/979-8-3373-2970-3.ch008>,

#### **Funded /Sponsored Projects**

- 6 Day Online FDP “ Next Gen Cybersecurity : Challenges and Strategies in AI Era “ funded by AICTE - ATAL - New Delhi (17th - 22nd November 2025) Rs.100000 - Completed.
- In-house Seed Money Project “Function form Automation - Hall Booking System” funded by Dr.NGP Arts and Science College,Coimbatore Rs.20500 - Completed
- Consultancy work on “SAP ECC Implementations Software Assistance for Business Processes ” funded by Gargi Huttenes Albertus Private Limited, Coimbatore (A German Based MNC- Head Quartered @ Bombay) Rs.50000 - Completed

#### **FDP / Workshops Participated**

- Participated & completed a 5 -Day Faculty Development Program on “Agentic AI - Building Autonomous , Intelligent Systems ” by Innomatics Research Labs(Online) from 22/12/2025 to 27/12/2025.

## FACULTY PROFILE

- Participated & completed a 7 -Day Faculty Development Program on “Deep Learning, GEN AI, and their Applications in Argiculture” by TEZPUR University(Online) 11th to 18th August, 2025
- Participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on “High Performance Computing for Medical Image Processing and Computer Vision” at MNNIT Allahabad from 09/12/2024 to 14/12/2024.
- Participated in the Short Term Course on "Machine Intelligence and Vision Algorithms (MIVA-2024)” in online mode during September 12-16, 2024 organized by the Department of Computer Applications, National Institute of Technology, Kurukshetra, Haryana, India.
- Participated in 7 Days Online Faculty Development program On “Essential Skills For Professional Development In Higher Education” organized by Star International Foundation for Research and Education on 01.07.2024 - 07.07.2024
- Participated in “Fundamentals of AI” an Online LIVE Faculty Development Programme conducted by ICT Academy on 19 Jul 2021 to 23 Jul 2021.
- Participated in “Research Methodology and ICT Tools for Tertiary Education” Seven Day Online FDP organized by IQAC and Centre for Faculty Development of Dr.NGP Arts and Science College, Coimbatore during JUNE 15 - 21, 202.
- Participated in "Innovation, Incubation, start-ups and Research Challenges in India" a 5 Day Online FDP organized by IQAC of St. Mary's Centenary Degree College, Secunderabad from 29 June 2021 to 3 July 2021 .
- Participated in “Machine Learning with Artificial Intelligence & IOT Using AWS”, 4 Weeks Instructor Led Live Online Training during 03 - 28 May 2021 organized by Finland Labs (A Unit of Revert Technology Pvt. Ltd.)
- Participated in "Revised NAAC Accreditation Framework Perceptions", Four days National Level Online Faculty Development Program organized by G.T.N. Arts College (Autonomous) during May 12 – 15, 2021.
- Participated in “Research Opportunities and Recent Trends in IOT and WSN”, 3 days FDP organized by Bangalore Institute of Technology during April 5 – 7, 2021.
- Participated in Five days Online Faculty Development Programme organized by the Department of Computer Science of Bharathiar University entitled “Industry 4.0 Technologies for Non-Computing Disciplines” from 27th to 31st July 2020.
- Participated in Three days Faculty Development Programme organized by PSG College of Arts and Science entitled “Medical Image Processing” from 27th -29th May 2020

## **FACULTY PROFILE**

- Participated in Five days Faculty Development Programme organized by the Department of Information Technology of Sona College of Technology in association with IIT Bombay entitled “Python Programming” from 18.05.2020 to 22.05.2020.
- Participated in Five days Faculty Development Programme organized by the Department of Information Technology of Sona College of Technology in association with IIT Bombay entitled “R Programming” from 14.05.2020 to 16.05.2020.
- Participated in Five days International Faculty Development Programme on Current Technologies in IT Industries, organized by NGM College , Pollachi on 14/05/2020 to 18/05/2020
- Participated in Two days Faculty Development Programme organized by Vels Institute of Science, Technology and Advanced Studies entitled “Machine Learning using Python” on 03/05/2020 & 04/05/2020.
- Participated in one week TEQIP – III Sponsored Faculty Development Programme organized by the Department of CSE, NIT Calicut in association with MVR Cancer Center and research Institute, Calicut entitled “ Geometry, Imaging and Parallel Computing Techniques (GIPCAN 2019)” during June 10-15, 2019.

### **Awards and Achievements**

- **VTU Reorganized Research Supervisor - ID 092024RSMC006425**
- Earned professional certification in Cyber Security from Google, recognized as a Google Certified Cyber Security Professional in January - 2024.
- Recognized as a Technical and promotion committee – Chairperson for the Second International Recent Trends in Technology, Engineering and Computing Conference (IRTTEC-2021), Universiti Malaysia Perlis , Malaysia on 27th-28th August 2021.
- Recognized as a Technical and promotion committee – Chairperson for the International Conference on Advanced Sciences and Engineering (Virtual Event) organized by UniMAP, Malaysia in Collaboration with SRIT on 17/04/2020 & 18/04/2020.
- Honored with Dr. Radhakrishnan Award by SRIT Alumni Association for Academic Excellence.

### **Professional Body Memberships (if applicable)**

- Indian Society for Technical Education (ISTE) - Membership Number: LM63912
- Computer Society of India (CSI) - Membership Number: 01057416
- Member in International Association for Engineers (IAENG) – 203417
- Member in Internet Society - 174451

## FACULTY PROFILE

### **Personal Details**

Name	Dr.N.Kumaresh
Date of Birth	05/11/1982
Gender	Male
Marital Status	Married
Mother Tongue	Tamil
Languages Known	Tamil, English
Contact Number	9894422610

**Place:Bangalore**

**(Dr.N.Kumaresh)**