Dr. R. Kumuthaveni

6-2, Kalapatti Road, Kurumbapalayam,
Coimbatore-641107, TN.
C: 9994299166
E: Kumuthaveni@gmail.com

Associate Professor with **16 years** of dedicated and accomplished professional experience in teaching, research, and curriculum development. Committed to fostering an environment where theoretical knowledge meets real-world application, preparing students for the future of technology composed with developing and implementing innovative research work with **Ph.D**.

Skills

• **NET qualified**	• **Research-oriented**
• **SET qualified**	• **Curriculum development**
• **With journals published in Scopus & SCI-E.**	• **NAAC co-ordinator(Dept)**
• **Conference, Workshop & FDP participation**	• **Effective teaching**
• **NPTEL certified**	• **Student mentoring**

Experience

APRIL 2023-PRESENT
Associate Professor and Head
KPR College of Arts Science and Research, Coimbatore, TN

- A forward-thinking academic leader in the department of Artificial Intelligence and Machine Learning, aiming to leverage AI for social good and technological innovation hoping for academic and research excellence. As Head of Department, I seek to cultivate a collaborative academic environment where research in AI tackles real-world challenges in healthcare, sustainability, and ethical AI development. Committed to building curriculum development and guiding the next generation of AI leaders.

NOV 2020 –APRIL 2023
Assistant Professor Nov 2020-Nov 2022
Associate Professor Nov 2022-Apr 2023
Kongunadu Arts and Science College, Coimbatore, TN

- Worked as Assistant and Associate Professor in the Department of CS(PG) to deliver high-quality education, engage in pioneering research, and contribute to the development of advanced AI-driven solutions. Mentoring students and collaborate on innovative projects that address key challenges in fields like robotics, data science, IoT and AI driven Technologies.

JAN 2008 –MAR 2020
Assistant Professor
Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore, TN

- Worked in the department of Computer Applications by utilizing ICT and creative instruction methods to promote student learning objectives and placements.
- Acknowledged with certificates for 100% results.
- Built strong student rapport by driving classroom discussions and providing academic advisement.
- **Supported IQAC of the college as BOS member and NAAC Co-ordinator** of the Department of Computer Applications for NAAC Accreditation and Re- Accreditation.

 JUNE 2005 –JAN 2008
Computer Instructor
Govt. Hr. Sec. School, Sarcarsamakulam, Coimbatore, TN
Instructed 11-12th grade levels of Computer science to a class of students.

Education
2001
Bachelor of Science
Kongunadu Arts and Science College, Coimbatore, TN, India.

2007

MCA
Indira Gandhi National Open University, New Delhi, India.

2008
M.Phil Computer Science
Vinayaka Missions University, Salem, TN, India.

2017
 Qualified the Tamilnadu State Eligibility Test (TNSET-2017) for Assistant Professor held on April 2017 in Computer Science and Applications.

2019
Ph.D. Computer Science
Thesis Title: A Novel Speech Emotion Recognition System using Fuzzy Vector Quantization.
Research Supervisor: Dr.E.Chandra, Professor & Head, Dept of Computer Science, Bharathiar University, Coimbatore.
Dr.SNS.Rajalakshmi College of Arts and Science (Autonomous), Coimbatore, TN, India.

2021
Qualified the UGC NET for eligibility as Assistant Professor in Computer Science and Applications in November 2021.

Activities

Paper Presentation

- **In National and Inter-National Conferences:**

    1. Presented a paper on "Implementation of FFT based Algorithm for Automatic Image Registration"-NCCSP 2011 at Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore.

    2. Presented a paper on "Emotional Speech Recognition through SVM-KNN for the Tamil Language"-NCAC 2016 at Bharathiar University, Coimbatore.

    3.Presented a paper on "Recognizing Emotions from Tamil Speech through MFCC Feature Extraction and the Tamil words"-ICCIA-2K17 at Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore.

    4. Presented a paper on "A Novel Guiding E-mailing System for Visually Impaired People"-NCMLST-2020 at Sri Krishna Arts and Science College, Coimbatore.

    5. Presented a paper on "A Review of Routing Protocols on Mobile Ad Hoc Networks"-ICAC 2022 at Bharathiar University, Coimbatore.

    6. Presented a paper on "A Review on Usage of Data Mining Techniques in Sustainable Agricultural Development" in Two Days National Level Conference on Scientific Input Technological Advancement and Women Empowerment for Sustainable Development "held on 2nd & 3rd February 2023 at Kongunadu Arts and Science College, Coimbatore

7. Presented paper on Review on DL Algorithm for Crop Leaf Disease Management in Two Days International National Level Conference on "Sustainable Computing and Future Transitions in Technology (ICSCFTT'24) held on 9th and 10th January 2024 at Nadar Saraswathi College of Arts and Science, Thenni.

- **In Journal Publications**

- Published Research Papers in **SCI (Science Citation Index-expanded), Scopus** and **UGC** indexed list of journals namely,

  1. Iterative Conditional Entropy Kalman filter (ICEKF) for noise reduction and Neuro Optimized Emotional Classifier (NOEC). Cluster Computing, PP.1-17 Springer(2018) **SCI-E indexed**.
  2. An Enhanced Bat Algorithm with Simulated Annealing Method for Speech Emotion Recognition, in Jour of Adv Research in Dynamical & Control Systems, Issue-1(2017) PP.125-137 **Scopus indexed**.
  3. Fuzzy Weight With Voronoi Centroid Vector Quantizer (FW-VCVQ) for Emotional Classifier with Tamil Speech Signals, International Journal of Pure and Applied Mathematics, Volume 119 No. 18 2018, 299-324 Special Issue, **UGC indexed.**
  4. A Study on Automatic Speech Recognition, in Journal of Computational Information Systems, Binary Information Press Systems 14: 4 (2018) 89-99(UGC).
  5. Performance evaluation of pitch values for finding emotions in Tamil speech, Int.J.Swarm Intelligence, Vol.3, No.4, PP.261–275(2018).Inder Science Enterprises Ltd.
  6. A Speech –Mail Assistance for Visionless, PalArch's Journal of Archaeology of Egypt / Egyptology, 17(12), 824-835(2020) **Scopus indexed**.
  7. A Survey of Cyber Defense Data Mining Strategies in Sambodhi Vol-44 No.-01 (XXI) PP.59-63(2021) **UGC Care Journal.**
  8. A Survey on Routing Protocols for Flying Adhoc Networks (FANET) in Shodhasamhita : Journal of Fundamental & Comparative Research Vol. VIII, Issue-II, No.8(July – December 2022) Pages 63-70 ISSN: 2277-7067 **UGC Care Journal**.
  9. Coati Optimized Transfer Leaning with Vision Transformer Model for Improving Deep Learner based Plant Diseases Detection**: International Journal of Intelligent Engineering Systems,** Vol.17, No.4, 2024 DOI: 10.22266/ijies2024.0831.21 Scopus Indexed Journal.

Co-Curricular:
1. **Coordinated and conducted** National Network Security Championship in association with e-cell IIT Bombay at Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore.

2. **Supported and organized** Industrial Level Summer Training Programme at Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore conducted by Network Bulls and Red Map E-learning in partnership with E-cell IIT Bombay.

3. **Completed 5 NPTEL courses** in Emotional Intelligence, Developing Soft Skills and Personality Development, Internet of Things (IoT), Cloud computing, Java Programming with *Elite Certification and also acted as a mentor to students for NPTEL courses.*

4. Attended **5 online AICTE approved FDPs** of 5 days' duration conducted by various institutions.

5. **Coordinating and conducting various activities as an Active** member in **Women Empowerment Cell** at Kongunadu Arts and Science College.

Personal Profile

Name: Dr.R.Kumuthaveni

Address: 6-2, Kalapatti Road, Kurumbapalayam, Coimbatore-641107, TN.

E: Kumuthaveni@gmail.com C: 9994299166

DOB:20.04.1981

Marital Status: Married

Languages Known: English and Tamil

Hobbies: Gardening and Yoga