



GH MOHMAD DAR

Assistant Professor

Department of Mathematics

School of Engineering

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1. ABOUT

Dr. GH Mohmad Dar is an Assistant Professor of Mathematics at Dayananda Sagar University, Bengaluru. His research interests lie at the intersection of applied mathematics, artificial intelligence, machine learning, and speech signal processing, with a particular focus on speech emotion recognition, acoustic feature optimization, cross-lingual speech analysis, and prosodic modelling. He has authored several peer-reviewed research publications in reputed international journals and has contributed to research projects involving low-resource language technologies, including work in collaboration with the Indian Institute of Science (IISc), Bengaluru. His research also extends to biomedical image analysis and computational modelling. He has received research recognitions, including the Research Scholar Best Paper Award, and has filed an Indian patent related to cross-lingual speech emotion recognition. With over three years of university-level teaching experience, he actively contributes to mathematics education and interdisciplinary research.

2. RESEARCH INTERESTS

- Speech Signal Processing and Analysis
- Speech Emotion Recognition and Detection
- Machine Learning and Deep Learning
- Mathematical Modelling and Optimization
- Image Processing and Computer Vision
- Multimodal and Cross-Lingual Emotion Recognition

3. ACADEMIC QUALIFICATIONS

- **Ph.D. in Mathematics** — Vellore Institute of Technology (VIT), Vellore, India, **2026**
- **M.Sc. in Mathematics** — Bangalore University, Bengaluru, India, **2017**
- **B.Sc. in Mathematics** — University of Kashmir, Srinagar, India, **2015**

4. PROFESSIONAL EXPERIENCE

- **Teaching/Research Assistant (TRA)** — Vellore Institute of Technology (VIT), Vellore, India, **2021–2025**
- **Guest Faculty** — Government Degree College, Sumbal, Jammu & Kashmir, India, **2019–2020**

5. RESEARCH HIGHLIGHTS

- **Publications:** 5 peer-reviewed research publications in journals including *IEEE Access*, Springer's *International Journal of Information Technology*, *Procedia Computer Science*, *International Journal of Analysis and Applications*, and *Frontiers in Artificial Intelligence*

- **Patents:** 1 Indian patent application filed in 2026 on “**System and Method for Speech Emotion Recognition in Kashmiri Language Using Cross-Lingual Deep Learning**” (Application No. 4358).
- **Research Projects:** Currently involved in research on Kashmiri Text-to-Speech (TTS) in collaboration with IISc Bangalore.
- **Awards/Recognitions:** Research Scholar Best Paper Award at ICMLDE 2024, Raman Research Award, and Dr. APJ Abdul Kalam Award for research contributions and publications.
- **Academic/Conference Roles:** Presented research at conferences/workshops including IUST, UPES, IIT Dharwad, and other academic forums, with research presentations on Kashmiri language, speech emotion recognition, and data scarcity.

6. SELECTED PUBLICATIONS

1. GH Mohmad Dar and Radhakrishnan Delhibabu, “Advanced Feature Selection and Temporal Attention Mechanisms for Optimizing Emotion Recognition in Kashmiri Speech,” *Frontiers in Artificial Intelligence*, 2026, DOI: 10.3389/frai.2026.1768701.
2. GH Mohmad Dar and Radhakrishnan Delhibabu, “Cross-Lingual Speech Emotion Recognition with Attention-Driven Bidirectional Sequence Modelling: Advancing Kashmiri and Multilingual Adaptation,” *International Journal of Analysis and Applications*, 2026, DOI: 10.28924/2291-8639-24-2026-43.
3. GH Mohmad Dar and Radhakrishnan Delhibabu, “Emotion Recognition in Kashmiri Speech: Evaluating Coefficient-Based Acoustic Features Using Bidirectional Recurrent Architectures,” *Procedia Computer Science*, 2025, DOI: 10.1016/j.procs.2025.04.442.
4. GH Mohmad Dar and Radhakrishnan Delhibabu, “Exploring Emotion Detection in Kashmiri Audio Reviews Using a Fusion Model of Convolutional and Recurrent Neural Architectures: Gender-Specific Speech Patterns and Performance Analysis,” *International Journal of Information Technology*, Springer, 2024, pp. 1–19, DOI: 10.1007/s41870-024-02105-4.
5. GH Mohmad Dar and Radhakrishnan Delhibabu, “Speech Databases, Speech Features, and Classifiers in Speech Emotion Recognition: A Review,” *IEEE Access*, Vol. 12, pp. 151122–151152, 2024, DOI: 10.1109/ACCESS.2024.3476960.

7. ACADEMIC PROFILES

- **Google Scholar:** 98 citations | h-index: 2 | i10-index: 2
- **ORCID:** 0009-0002-6912-2519
- **Scopus:** 59254661600 and 59396481300
- **ResearchGate:** Research Interest Score: 54.4

8. CONTACT

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