

# KALLURI SHAREEF BABU

Post-Doc Fellow, Leap-Lab, Dept.of Electrical Engineering || IISc, Bangalore || Karnataka

+91-9620789927 || E-mail: shareefbabu1@gmail.com

Web links : [Linkedin](#) || [GoogleScholar](#)

## EDUCATION

---

- **Ph.D.** || National Institute of Technology Karnataka (NITK) Surathkal, KAR, India  
Department of Electronics and Communication Engineering July 2021  
Specialization in Machine Learning and Speech Signal Processing  
Cumulative GPA: 7.68/10.0
- **M.Tech.** || Jawaharlal Nehru Technological University, Anantapur Anantapur , AP, India  
Department of Electronics and Communication Engineering Jun 2013  
Specialization in Digital Electronics and Communication Systems  
Percentage: 82.44%
- **B.Tech.** || Jawaharlal Nehru Technological University, Anantapur Anantapur , AP, India  
Department of Electronics and Communication Engineering Jun 2011  
Percentage: 67.76%.

## TOP SKILLS

---

- Programming Language: Python, Shell Scripting
- Programming Tools (IDE): Matlab
- Python Libraries: Numpy, Scipy, Matplotlib, Pandas
- ML Libraries: Keras, Tensorflow
- Research Interest: Speech Processing, Human Computer Interaction, Machine Learning, Deep Learning ,Speaker Diarization, ASR

## RESEARCH EXPERIENCE

---

- **Post-Doc Researcher** November 2023 - Till Date  
[Learning and Extraction of Acoustic Patterns \(LEAP\) Lab](#),  
Dept. of Electrical Engineering,  
Indian Institute of Science, Bangalore, India .

Projects Involved:

Diarization of Speaker and Language in Conversational Environments ([DISPLACE](#))

Supervisor: [Dr. Sriram Ganapathy](#)

- **Post-Doc Researcher** May 2021 - March 2023  
[Intelligent User Interface Lab](#),  
Dept. of Computer and Information Science,  
Seikei University, Tokyo, Japan.

## Projects Involved:

1. User-adaptive artificial intelligence for human-computer interaction (PANORAMA) project funded by JST, AIP Japanese-German-French AI Research program
2. The Realization of an Avatar-Symbiotic Society where Everyone can Perform Active Roles without Constraint (Project manager is Professor Hiroshi Ishiguro at Osaka University) funded by JST Moonshot R&D goal 1: Realization of a society in which human beings can be free from limitations of body, brain, space, and time by 2050

Supervisor: [Prof. Yukiko I Nakano](#)

- **Research Scholar :** December 2013 to 2020  
Department of Electronics and Communication Engineering,  
National Institute of Technology Karnataka Surathkal.  
Supervisor: [Dr. Deepu Vijayasenan](#)
- **Project Research Assistant (SERB Funded)** January 2019 to October 2020  
Department of Electronics and Communication Engineering,  
National Institute of Technology Karnataka Surathkal.  
*Title: Automatic Multilingual Speaker Profiling and Forensics.*  
Supervisor: [Dr. Deepu Vijayasenan](#)  
  
*Visiting Research Scholar: Learning and Extraction of Acoustic Patterns ([Leap Lab](#)),  
Department of Electrical Engineering ,  
Indian Institute of Sciences (IISc) Bangalore.*
- **Research Intern** October 2012 to May 2013  
National Atmospheric Research Laboratory ([NARL](#)), Gadanki, Tirupati, AP, India.  
Topic: Implementation of Reed-Solomon Decoder Using Microblaze for Radiosonde Telemetry system..  
Mentor: Dr. T.V.C. Sarma, Scientist/Engineer - SG

## PUBLICATIONS

---

- **Journal:**
  - [Kalluri, Shareef Babu, Deepu Vijayasenan, and Sriram Ganapathy](#), “Automatic speaker profiling from short duration speech data”, [Speech Communication](#) (2020). (SCIE Indexed, Impact factor: 3.2)
- **Conferences:**
  - [Kalluri, Shareef Babu , Deepu Vijayasenan, Sriram Ganapathy, Ragesh Rajan M, Prashant Krishnan](#), “NISP: A Multi-lingual Multi-accent Dataset for Speaker Profiling”, in the proceedings of the *46<sup>th</sup> IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. Toronto, Ontario, Canada, IEEE, 2021.
  - [Kalluri, Shareef Babu , Deepu Vijayasenan, and Sriram Ganapathy](#), “A Deep Neural Network Based End to End Model for Joint Height and Age Estimation from Short Duration Speech”, *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, IEEE, 2019, Brighton, UK.
  - [Kalluri, Shareef Babu, Ashwin Vijayakumar, Deepu Vijayasenan, and Rita Singh](#), “Estimating Multiple Physical Parameters from Speech data”, in *IEEE 26<sup>th</sup> International Workshop on Machine Learning for Signal Processing (MLSP)*, 2016, Salerno, Italy.

- Kalluri, Shareef Babu and Deepu Vijayasenan, “Robust features for automatic estimation of physical parameters from speech”, in *IEEE Region 10 Conference, TENCON 2017*, Penang, Malaysia.
- Kotra Venkata Sai Ritwik, Kalluri, Shareef Babu, Deepu Vijayasenan, “COVID-19 Detection from Spectral features on the DiCOVA Dataset”, in the proceedings of *Interspeech 2021*, Brno, Czech Republic.
- Deepu Vijayasenan, Kalluri, Shareef Babu, K Sreekanth, and Ansal Issac, “Study of Wireless Channel Effects on Audio Forensics”, in *IEEE 22<sup>nd</sup> Annual International Conference on Advanced Computing and Communication (ADCOM)*, 2016, Bangalore, India.
- **Other Publications**
  - Kotra Venkata Sai Ritwik, Kalluri, Shareef Babu, Deepu Vijayasenan, “COVID -19 Patient Detection from Telephone Quality Speech Data”, [arXiv preprint arXiv:2011.04299 \(2020\)](#).

## PROFESSIONAL MEMBERSHIPS

---

- Member, ACM.

## PROFESSIONAL SERVICE

---

- Reviewer, Journal of Speech Communication
- Reviewer, Interspeech 2021, Interspeech 2022. Interspeech 2023
- PC Member, Annual Conference on Intelligent User Interfaces (IUI) 2022, 2023, 2024
- PC Member, SPECOM 2023
- Reviewer, IEEE CONECCT 2020.

[All the information written here is true to the best of my knowledge]

*Kalluri Shareef Babu*