

Dr. N Kishore Babu

Indian Institute of Information Technology Ranchi

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I received my **M.Tech.** and **Ph.D.** degrees from the Department of Computer Science and Engineering under the guidance of **Professor Balasubramanian Raman, Indian Institute of Technology Roorkee**. My doctoral study, which focused on **Deep Learning-Driven Approaches to Medical Image Computing and Secure Processing**, resulted in a successful thesis defense on June 24, 2024. My research findings have been published in several peer-reviewed publications and conference proceedings. Please find the more details at <https://kishorebabun.github.io/>.

Research Interests: Medical Image Processing, Image Segmentation, Image Classification, Machine Learning.

Education

Program	Institution/Board	Year
Ph.D. (Computer Science & Engg.)	Indian Institute of Technology Roorkee Roorkee, India	2019-24
M.Tech. (Computer Science & Engg.)	Indian Institute of Technology Roorkee Roorkee, India	2015-17
B.Tech. (Computer Science & Engg.)	Sri Vidyanikethan engineering college Tirupati, India	2008-12
Intermediate (M.P.C)	Krishna Reddy's Sri Chaitanya College Tirupati, India	2006-08
S.S.C	A.P.R.S Gyarampalli	2000-06

Academic Coursework and Technical Proficiencies

- COURSES: Database management system(DBMS), Advanced DBMS, Digital Logic design (DLD), Object Oriented Programming, Machine Learning, AI.
- PROGRAMMING LANGUAGES: C, C++, Java, Python.
- WEB TECHNOLOGY: HTML, XML, JAVASCRIPT.
- DATABASE SYSTEM: MySQL, Oracle.
- OPERATING SYSTEM: Windows, Linux.
- DEEP LEARNING: CUDA, Tensor Flow, PyTorch, and its compatible libraries.

Positions of Responsibility

- **Working as a Faculty in the department of CSE, IIIT Ranchi (08-08-2024 to till date).**
- *Worked as an assistant professor in Vignan's Deemed to be University (20-06-2017 to 18-12-2018).* [Teaching as a faculty advisor and student counselor.](#)
- [Teaching Assistant \(Ph.D.\)](#) in CSE Department, IIT Roorkee **(January, 2019-December, 2024).**
- *Reviewer for Conferences: CVIP, ICONIP, IJCNN*
- Reviewer for Journals: Journal of Real-Time Image Processing, Neurocomputing.
- Member of ERP/Information System Team, IIIT Ranchi. **(August 29, 2024 - Till Date)**
- Faculty Advisor (1st Year B.Tech., CSE), IIIT Ranchi. **(January 9, 2025 - Till Date)**

Workshops

- Certified by International Centre for Theoretical Physics (ICTP) for participation and completion of online Youth in High Dimensions: Machine Learning, High Dimensional Statistics and Inference for the New Generation, 29 Jun - 03 Jul, 2020. [ICTP certification](#)
- Attended IEEE International Conference on Image Processing on October 25–28, 2020 Abu Dhabi, UAE (Virtual). [Certificate of participation in ICIP 2020.](#)
- Attended Fourth International Conference on Computer Vision & Image Processing (CVIP 2019) held in Jaipur, Rajasthan, India.
- Participated in conducting the Workshop (virtual) on Digital Image Processing and its Applications (DIPA-2020) at NIT Arunachal Pradesh, India.

Achievements/Awards

- Received merit scholarship from Indian Bank for securing first rank in Secondary School Examination at the district level.
- Got merit scholarship for the achievement in securing first rank in Secondary School Examination in district level from Indian Bank.
- Awarded DORA Funds by Indian Institute of Technology Roorkee to present my research paper at an International Conference.
- Granted Microsoft research funds to attend an IEEE International Conference.
- Received a 10-year US visa valid until January 15, 2030.
- Attended and presented (offline) research paper at the 14th IEEE International Conference on Semantic Computing (ICSC 2020) in San Diego, California, USA, held from Feb 3-5, 2020.
- Received M.H.R.D. fellowship from the Government of India.
- Attended as a judge for **SOCIOTHON** conducted by **NSS IIT Roorkee** in October 2023.
- Attended as a judge for **NATIONAL SOCIAL SUMMIT** conducted by **IIT Roorkee** from 10-11 Feb 2024.

Visits

- **National Visits:**
 1. Attended CVIP International conference, MNIT, Jaipur (Rajasthan).
 2. Participated in conducting the Workshop (virtual) on Digital Image Processing and its Applications (DIPA-2020) at NIT Arunachal Pradesh, India.
- **International Visits:**
 1. Attended ICSC international conference, California, San Diego, USA. (**Offline**)
 2. Attended ICTP certification course in Italy. (Virtual)
 3. Attended IEEE International Conference on Image Processing at Abu Dhabi, UAE. (Virtual)

Invited Talk

- Delivered a talk (Virtually) on ONLINE FRAUDS AND HOW TO AVOID THEM in a National Webinar on Digital Literacy conducted by GOVERNMENT DEGREE COLLEGE, NANDIKOTKUR (Affiliated to Rayalaseema University, Kurnool), Department of Commerce & Department of Computer Applications, Andhra Pradesh, India on 11 Sep 2024.

Publications

JOURNALS:.....

1. **Kishore Babu Nampalle**, Shriansh Manhas and Balasubramanian Raman, Medical Image Security and Authenticity via Dual Encryption, *Applied Intelligence (Springer)*, Volume 53, pages 20647–20659, 2023. <https://doi.org/10.1007/s10489-023-04550-3> [**Published, Q2, IF = 5.3**]
2. **Kishore Babu Nampalle**, Anshul Pundhir, Pushpamanjari Ramesh Jupudi and Balasubramanian Raman, Towards Improved U-Net for Efficient Skin Lesion Segmentation, *Multimedia Tools and Applications (Springer)*, Volume 83, pages=1–18, April 2023. <https://doi.org/10.1007/s11042-024-18334-5> [**Published, Q2, IF = 3.6**]
3. **Kishore Babu Nampalle**, Pradeep Singh, Shubhi Srivastava, Vivek Narayan Uppala, and Balasubramanian Raman,

Medical Imaging Diagnostics via Anisotropic Diffusion in a Resource-Efficient Federated Learning Model, *IEEE Transactions on Emerging Topics in Computational Intelligence (IEEE TETCI)*, September 2024. **[Communicated, Q2, IF = 5.3]**

4. **Kishore Babu Nampalle**, Pradeep Singh, Vivek Narayan Uppala, and Balasubramanian Raman, Integrated Wavelet-Enhanced Deep Learning Framework for Point Cloud-Based Image Classification, *ACM Transactions on Multimedia Computing, Communications, and Applications (ACM TOMM)*, November 2024. **[Communicated, Q1, IF = 5.1]**

CONFERENCES:

1. **Kishore Babu Nampalle**, Balasubramanian Raman, An Efficient Approach for Skin Lesion Segmentation using Dermoscopic Images: A Deep Learning Approach, Proceedings of *The 5th International Conference on Computer Vision and Image Processing (CVIP)*, 4-6 December, Allahabad, pp. 430-439, 2020. **(Published)**

2. **Kishore Babu Nampalle**, Balasubramanian Raman, An Efficient Multi-Functional Deep Learning Model for Effective Medical Image Classification using Skin Lesion Database, Proceedings of *The 5th IEEE International Conference on Multimedia Information Processing and Retrieval (MIPR)*, 2-4 August, USA, pp. 425-429, 2022. **(Published)**

3. Nidhi Saxena, **Kishore Babu Nampalle**, Balasubramanian Raman: Semantic segmentation of multispectral images using res-seg-net model, Proceedings of IEEE 14th International Conference on Semantic Computing (ICSC), February 3-5, 2020, San Diego, California, USA. **(Published)**

4. Goyal, P., Raj, A., Kumar, P. and **Kishore Babu Nampalle**, 2022, August. Automatic Evaluation of Machine Generated Feedback For Text and Image Data, Proceedings of IEEE 5th International Conference on Multimedia Information Processing and Retrieval (MIPR), August 2-4, 2022, (pp. 413-418), IEEE. **(Published)**

5. Deepak Kumar, Pradeep Singh, Richa, **Kishore Babu Nampalle** and Balasubramanian Raman, Integrating Physiological Signals with Dynamical Attention Networks for Personality Trait Analysis, International Joint Conference on Neural Network (IJCNN 2024), June 30 - July 5, Yokohama, Japan. **(Published)**

OTHERS:

1. **Kishore Babu Nampalle**, Pradeep Singh, Uppala Vivek Narayan, Balasubramanian Raman, Vision Through the Veil: Differential Privacy in Federated Learning for Medical Image Classification, <https://doi.org/10.48550/arXiv.2306.17794>. **(Preprint)**

2. Pradeep Singh, **Kishore Babu Nampalle**, Uppala Vivek Narayan, Balasubramanian Raman, See Through the Fog: Curriculum Learning with Progressive Occlusion in Medical Imaging, <https://doi.org/10.48550/arXiv.2306.15574>. **(Preprint)**

Others

- o Hobbies: Traveling, Self Learning, Playing Games.
- o Languages: Telugu, English, Hindi.

Place: IIIT Ranchi, Jharkhand State (India)

(Dr. N Kishore Babu)