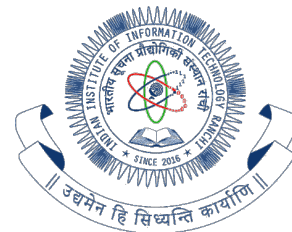# Dr. N Kishore Babu
Assistant Professor (Level-10)
Indian Institute of Information Technology Ranchi
(Institute of National Importance, Government of India)
IIIT Ranchi, ARTTC BSNL Campus, Ranchi - 835217, Jharkhand State, India
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⚕ LinkedIn: www.linkedin.com/in/kishore-babu-nampalle-2a5402a8
Website: kishorebabun.github.io/

Dr. N. Kishore Babu completed his doctoral studies in the Department of Computer Science and Engineering at the Indian Institute of Technology Roorkee under the esteemed guidance of Professor Balasubramanian Raman. His academic excellence has been recognized through several prestigious awards and scholarships, including the Prathibha Award (2006), merit scholarships from the Government of Andhra Pradesh, and outstanding performance in the EAMCET and GATE examinations. His research has received competitive funding and support from renowned organizations such as the Government of India, DORA–IIT Roorkee, and Microsoft Research.

Dr. Kishore Babu's scholarly contributions are reflected in numerous publications in reputed international journals and conferences, establishing his credentials as a promising researcher in the field. Alongside his research endeavors, he has accumulated substantial teaching experience and has successfully mentored several undergraduate and postgraduate students, contributing to their academic and professional development.

He earned both his M.Tech. and Ph.D. degrees from the Department of Computer Science and Engineering, IIT Roorkee, under the supervision of Professor Balasubramanian Raman. His doctoral research, titled "Deep Learning–Driven Approaches to Medical Image Computing and Secure Processing," culminated in a successful thesis defense on June 24, 2024. The outcomes of his research have been disseminated through multiple peer-reviewed journal articles and conference proceedings. Please find more details at **https://kishorebabun.github.io/.**

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

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

Teaching

- Database Management System
- Computer Programming: Concepts and Practices
- Discrete Mathematics
- Data Structure and Programming Languages
- Advanced Database Management System (ADBMS)
- Digital Logic Design (DLD)
- Machine Learning (ML)
- Deep learning and its Applications
- Object Oriented Programming (OOP)
- Programming Languages: C, C++, Java, Python.

- WEB TECHNOLOGY: HTML, XML, JAVASCRIPT
- DATABASE SYSTEM: MySQL, Oracle
- OPERATING SYSTEM: Windows, Linux
- DEEP LEARNING: CUDA, TensorFlow, Pytorch, and its compatible libraries

Thesis Supervised

Degree	Thesis Supervised
Ph.D.	1 ongoing
M.Tech.	2 ongoing
B.Tech.	10 completed; 10 ongoing

Experience

- **ASSISTANT PROFESSOR**, Department of Computer Science and Engineering, IIIT Ranchi. **(13-03-2025 to till date)**
- **FACULTY**, Department of Computer Science and Engineering, IIIT Ranchi. **(08-08-2024 to 12-03-2025)**
- **ASSISTANT PROFESSOR**, Department of Computer Science and Engineering, Vignan's Foundation for Science, Technology & Research (Deemed to be University), INDIA. **(June 2017 – December 2018)**
- **TEACHING ASSISTANT**, Department of Computer Science and Engineering, Indian Institute of Technology Roorkee. **(January 2019 - December 2023)**
- **Reviewer**
  Conferences
  - International Conference on Computer Vision & Image Processing (CVIP)
  - International Conference on Electronics, Electrical and Computer Engineering (ICE3)
  - International Conference on Computer Vision and Machine Intelligence (CVMI)
  - IEEE India Council International Conference (INDICON)
  - International Conference on Neural Information Processing (ICONIP)
  - International Joint Conference on Neural Networks (IJCNN)
  - International Conference on Pattern Recognition and Machine Intelligence (PReMI)
  - International Conference on Medical Imaging with Deep Learning (MIDL)
  - International Conference on Artificial Intelligence for Healthcare (AIHC)

  Journals
  - Journal of Real-Time Image Processing
  - Neural Computing and Applications
  - Neurocomputing
  - IEEE Open Journal of the Communications Society
  - Scientific Reports

Administrative Duties

- **Warden (Block 3)**, Boy's Hostel SAJHA (Khelgaon Housing Complex), IIIT Ranchi. **(July 23, 2025 - Till Date)**
- **Member**, Examination Committee, IIIT Ranchi. **(July 23, 2025 - Till Date)**
- **Member**, Institute Disciplinary Committee, IIIT Ranchi. **(July 23, 2025 - Till Date)**
- **Faculty-in-Charge**, Student Mentorship & Wellness, IIIT Ranchi. **(July 23, 2025 - Till Date)**
- **Faculty-in-Charge**, Newsletter & Magazine, IIIT Ranchi. **(July 23, 2025 - Till Date)**
- **Member**, Anti-Ragging Squad, IIIT Ranchi. **(July 23, 2025 - Till Date)**

Awards and Honors

- Attended and Presented (Offline) my research paper in IEEE International Conference on Computational Intelligence and Network Systems (CINS), which was held on Novenber 25-26, 2025, BITS Pilani, Dubai Campus, Dubai.
- Attended and Presented (Offline) my research paper in 14th IEEE International Conference on Semantic Computing (ICSC 2020), which was held on Feb 3-5, 2020, San Diego, California, USA.
- Received Microsoft research funds to attend IEEE International Conference.

- Got US visa with 10 years validity, i.e, valid up to January 15, 2030.
- Received Microsoft research funds from IIT Roorkee to attend IEEE International Conference.
- Received Alumni Funds Funds (Travel Grant) from the Indian Institute of Technology Roorkee to present my Research paper at the International Conference.
- Received M.H.R.D fellowship from the Govt. of India.
- Got merit scholarship for securing first rank in Secondary School Examination at district level from Indian Bank.
- Received the Honorarium from District collector for securing the Highest marks in SSC Public Examination.
- 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.

Patent

- Kishore Babu Nampalle and Ankita Kumari, "AI-based vision screening device to detect ocular abnormalities," UK Registered Design No. 6449352, June 14, 2025. **(Status: Published)**

Visits

- **National Visits:**
  1. Attended National Wellbeing Conclave 2025, IIT Bombay, India.(November, 2025)
  2. Attended CVIP International conference, MNIT, Jaipur (Rajasthan).
  3. Participated in conducting the Workshop (virtual) on Digital Image Processing and its Applications (DIPA-2020) at NIT Arunachal Pradesh, India.
- **International Visits:**
  1. Attended (Offline) IEEE CINS international conference, Dubai.(November, 2025).
  2. Attended ICSC international conference, California, San Diego, USA. **(Offline)**
  3. Attended ICTP certification course in Italy. (Virtual)
  4.Attended IEEE International Conference on Image Processing at Abu Dhabi, UAE. (Virtual)

Invited Talk

1. Delivered a talk (virtually) on ONLINE FRAUDS AND HOW TO AVOID THEM, in 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. **(September 11, 2024)**
2. Delivered a special invited talk (Virtually) on RECENT TRENDS IN STATISTICAL INFERENCE (CLASSICAL MODELS TO EXPLAINABLE AI), In WORLD CONFERENCE ON STATISTICAL INFERENCE (WCSI 2025) (JUNE 29 - JULY 01, 2025) Conducted by Bharathiar University, Coimbatore, India, Department of Statistics, Coimbatore, Tamil Nadu, India. **(July 01, 2025)**
3. Delivered an invited talk (Virtually) on Emerging Directions in Transparent and Interpretable Modeling , FACULTY DEVELOPMENT PROGRAMME (FDP) ON "MATHEMATICAL COMPUTATIONS AND APPLICATIONS." (DECEMBER 01- 05, 2025) Conducted by the Department of Mathematics, Central University, Jammu, India. **(December 04, 2025)**

Workshops

- Certified by the 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.

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]**

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)**
6. Kishore Babu Nampalle, Ankita Kumari, Gaurav Sundaram, Differential Privacy in Federated Learning for Medical Image Classification, IEEE International Conference on Computational Intelligence and Network Systems (CINS 2025), BITS Pilani, Dubai, UAE. **(Accepted)**
7. Kishore Babu Nampalle, Ankita Kumari, Privacy-Preserving Deep Learning for Medical Imaging: An Optimized Federated Classification Framework, IEEE International Conference on Computational Intelligence and Network Systems (CINS 2025), BITS Pilani, Dubai, UAE. **(Accepted)**

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)**

Contact

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