



Lecturer in Electronics & Research Scholar | Kuvempu University

Lecturer and researcher with 7+ years of experience in Electronics. Specializes in AI-based medical image analysis, including brain tumor detection, lung tumor classification, and breast cancer diagnosis. Authored multiple peer-reviewed publications in international journals and IEEE conferences.

CHANDRAKANTHA T S

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🌐 **Web Presence**

🌐 [Personal Website](#)

🌐 [Academic \(Google Sites\)](#)

📖 [Google Scholar](#)

📄 [LinkedIn](#)

💡 Skill Highlights

- 🔧 Embedded Systems & Microcontroller Programming
- 💻 Machine Learning & AI Applications
- 🛠 Workshop Facilitator: Robotics, AI, Embedded Systems
- 👤 Student Project Mentoring
- ⚙ Hardware-Software Integration

📖 Courses Taught

- ⚙ Machine Learning
- 🔍 Pattern Recognition
- 📄 PIC and ARM Microcontrollers
- 🔌 Embedded Systems
- 📡 Advanced Digital Communication Systems
- 💠 VLSI (Very-Large-Scale Integration)
- ⚡ Power Electronics
- 📊 Analog and Digital Electronics

📅 Experience: 7 Years

1. Postgraduate Level – 6 Years 2 Months

💎 Guest Lecturer

🏢 Department of PG Studies and Research in Electronics, Kuvempu University

📅 2019 – Present

2. Undergraduate Level – 8 Months

💎 Guest Lecturer

🏢 Department of Electronics, Government First Grade College, Shikaripura

📅 2018 – 2019

🎓 Education

1. Ph.D. (Thesis Submitted on 11th March 2025) – Kuvempu University

📖 **Thesis:** Hybrid Image Processing Techniques for Medical Image Analysis and Detection of Abnormality

👤 **Guide:** Prof. Basavaraj N. Jagadale

2. M.Sc. in Electronics (82.12%) | 🏆 First Rank – Mangalore University

3. B.Sc. in Electronics (PME) – 67.31% | 🏆 Topper in Electronics – Sahyadri Science College, Shimoga

4. PUC – Science [PCME] (58.66%) – Govt. PU College, Thirthahalli

5. SSLC (69.76%) – Govt. High School, Yadur

📄 Certifications

Embedded Systems Professional – Advanced (ECEP)

Certified by Emertxe, Bangalore | Duration: 6 Months

 Journal Papers

1. Chandrakantha, T. S., Jagadale, B. N., & Alnaggar, O. A. M. F. (2024). **Lung Tumor Classification Using Hybrid Deep Learning and Segmentation by Fuzzy C Means**. *Indian Journal of Science and Technology*, 17(1), 70–79. <https://doi.org/10.17485/IJST/v17i1.2124>. (Web of Science Indexed)
2. Chandrakantha, T. S., Jagadale, B. N., Abhisheka, T. E., & Alnaggar, O. A. M. F. (2023). **Automated Identification and Localization of Brain Tumor in MRI Using U-Net Segmentation and CNN-LSTM Classification**. *International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)*, 11(10s), 637–644. <https://doi.org/10.17762/ijritcc.v11i10s.7703>. (Scopus Indexed)
3. Chandrakantha, T. S., Jagadale, B. N., & Abhisheka, T. E. (2023). **Improved Breast Cancer Classification Using Wavelet-Based Feature Extraction and Ensemble Learning**. *European Chemical Bulletin*, 12(7), 620–637. (Scopus Indexed)
4. Chandrakantha, T. S., Jagadale, B. N., Priya, B. S., & Naragund, M. N. (2023). **Wavelet-Based Image Denoising Using NL Means Filter and NeighSure Shrink**. *Goya Journal*, 16(6), 80–91.
5. Chandrakantha, T. S., & Jagadale, B. N. (2023). **Comparative Analysis of U-Net and DeepLab for Automatic Polyp Segmentation in Colonoscopic Frames Using CVC-ClinicDB Dataset**. *International Journal of Scientific Research in Science and Technology (IJSRST)*, 10(5), 612–618. <https://doi.org/10.32628/IJSRST52310599>.

 Book Chapter

1. Madhuri, G. R., Jagadale, B. N., Salma, N., Akshata, G. M., Gupta, A., & Chandrakantha, T. S. (2024). **Machine Learning-Based Pattern Recognition Models for Image Recognition and Classification**. In D. S. Guru, N. V. Kumar, & M. Javed (Eds.), *Data Analytics and Learning (ICDAL 2022), Lecture Notes in Networks and Systems* (Vol. 779). Springer, Singapore. https://doi.org/10.1007/978-981-99-6346-1_8.

 Conference Papers / Proceedings

1. Chandrakantha, T. S., Jagadale, B. N., Madhuri, G. R., Abhishek, T. E. (2024). **AI in Ophthalmic Imaging: Enhancing Retina Analysis for Early Disease Detection**. 2024 *IEEE International Conference on Computer Vision and Machine Intelligence (CVMI)*, Prayagraj, India, pp. 1–6. <https://doi.org/10.1109/CVMI61877.2024.10782114>.
2. Chandrakantha, T. S., Jagadale, B. N., & Madhuri, G. R. (2022). **A Survey on Artificial Intelligence-Based Lung Tumor Segmentation and Classification**. 2022 *International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)*, Shivamogga, India, pp. 201–206. <https://doi.org/10.1109/DISCOVER55800.2022.9974713>.
3. Chandrakantha, T. S., Jagadale, B. N., Madhuri, G. R., Alnaggar, O. A. M. F., Abhishek, T. E., & Swaroopa, H. N. (2023). **Review on Brain Tumor Segmentation and Classification Using Artificial Intelligence**. 2023 *IEEE International Conference on Contemporary Computing and Communications (InC4)*, Bangalore, India, pp. 1–6. <https://doi.org/10.1109/InC457730.2023.10262833>.
4. Chandrakantha, T. S., Jagadale, B. N., Madhuri, G. R., Alnaggar, O. A. M. F. (2023). **Comparative Analysis of Various Filters for Denoising of Medical Images**. In *National Conference on Computational Intelligence (NCCI 2023)*, Kristu Jayanti College, pp. 48–49.
5. Chandrakantha, T. S., Jagadale, B. N., & Madhuri, G. R. (2023). **Various Denoising Techniques on Chest X-Ray Images: A Study**. *International Conference on Emerging Trends in Engineering, Science, and Technology (ICETEST-2023)*, S.B. Arts and K.C.P. Science College, Vijayapur.
6. Chandrakantha, T. S., Jagadale, B. N. (2019). **Implementation of Wireless Long-Range Hand Gesture Recognition Controlled Robot Using NRF24L01**. *Proceedings of ICINEC-2019*, ISBN: 978-93-83985-20-3.
7. Chandrakantha, T. S., Jagadale, B. N. (2019). **Age Prediction and Gender Classification Using Convolutional Neural Networks**. *Proceedings of ICINEC-2019*, ISBN: 978-93-83985-20-3.
8. Chandrakantha, T. S., Jagadale, B. N. **Design and Development of Autonomous Fire Fighting Robot**. *Proceedings of ICINEC-2019*, ISBN: 978-93-83985-20-3.
9. Chandrakantha, T. S., Jagadale, B. N. (2019). **Implementation of Real-Time Face Recognition Using Raspberry Pi**. *Proceedings of ICINEC-2019*, ISBN: 978-93-83985-20-3.