

# RESUME

**Dr. Chethan K S**



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**Objective:** Seeking a good opportunity to impart quality education to students and to conduct research activities in cutting-edge technologies.

## 1. Academic Performance:

| Qualification | University   | Institute and place where studied      | Specialization                              | Year of passing | Percentage |
|---------------|--------------|--|---|-----------------|------------|
| Ph.D          | VTU, Belgaum | SJBIT, Bangalore                       | Bio-medical Signal Processing               | 2019            | N/A        |
| M. Tech       | VTU, Belgaum | Malnad College of Engineering, Hassan. | Digital Electronics & Communication Systems | 2010            | FCD/77.28  |
| B. E          | VTU, Belgaum | S.J.C.I.T., Chickballapur.             | Electronics & Communication                 | 2008            | FC/66.79   |

## 2. Teaching Experience

| Sl. No | Institution  | Designation         | Experience (in Years)                  |
|--------|--|---------------------|--|
| 1      | RV Institute of Technology & Management, Bangalore | Assistant Professor | <b>4Y10M</b> [01-09-2020 to TILLDATE]  |
| 2      | P.E.S University, Bangalore                        | Assistant Professor | <b>8Y8M</b> [18-01-2012 to 12-08-2020] |
| 3      | M.C.E., Hassan                                     | Lecturer            | <b>1.5Y</b> [25-08-2010 to 16-01-2012] |

Overall Teaching Experience of **15 Years**

### 3. List of Publications

#### International Journal Publications: 08

1. Vinayak K Bairagi, Pratima Purushottam Gumaste, Seema H. Rajput, Chethan K S., "Automatic brain tumor detection using CNN transfer learning approach," *Medical & Biological Engineering & Computing, Springer*, vol. 61, pp. 1821-1836, March 2023. [Q2]
2. Purushotham Ugraiyah, Chethan K S, "Semi supervised learning to Enhance Speech Signal for Mobile Communication", *SN Computer Science, Springer*, pp 1-10, November 2020. [Q2]
3. Sai Raghava Mukund, Chinmaya Srivatsa, Chethan K S and Srikanth Vadada "Generation of SAR Images using Deep Learning", *SN Computer Science, Springer*, pp 1-9, November 2020. [Q2]
4. Chethan K S and Dr. K R Nataraj, "Automated Identification of Cholangio- Carcinoma Based on CT-Scan Tumor Edge Detection", *International Journal of Healthcare and Biomedical Research (IJHBR)*, ISSN: 2319-7072 vol. 5, issue 3, pp.15-23, April 2017.
5. Chethan K S, "Investigating Hepato-Cellular-Carcinoma Based on CT-Scan Tumor Edge Detection" *SSRG International Journal of Medical Science (SSRG-IJMS)*, ISSN: 2393-911, Seventh Sense Research Group, vol. 4, issue 3, pp. 31-36, March 2017
6. Chethan K S and Dr. K R Nataraj, "Investigating Metastasis Based on CT-Scan Tumor Edge Detection", *International Journal of Applied Engineering Research (IJAER)*, ISSN: 0973-9769, Research India Publications, vol. 13, issue 12, pp. 10641-10646, 2018.
7. Chethan K S and Dr. K R Nataraj, "Computer Aided Diagnosis of Liver Cancer using K-Means Cluster Analysis" *International Journal of Research in Electronics and Computer Engineering (IJRECE)*, ISSN: 2348-2281, vol. 6, issue 4, pp. 1195-1200, Oct-Dec 2018.
8. Chethan K S and Dr. K R Nataraj, "Computer Aided Diagnosis of Liver Cancer using Histogram Based Analysis" *International Journal of Management, Technology and Engineering (IJMTE)*, ISSN: 2249, vol. 8, issue XII, pp. 4323-4329, Dec 2018.

## PATENTS

### LIST OF PATENTS GRANTED & PUBLISHED

1. Dr. Meena Chavan, Dr. Jessy Sujana, Prof. Sanjaya Kumar Sarangi, **Dr. Chethan K S**, Prof. Uma Shivanna, Dr. Hardik Ashvinbhai, Dr. Srichetha Parui and Dr. Reeta Pawar, **AI Enabled Farm Monitoring Device**, Indian Design Patent, Application Number: 424437-001, Submitted on 24.07.2024 (**Granted on 05.09.2024**).
2. Dr. H Manoj, Narendra Sahu, **Dr. Chethan K S**, Tikeshwar Gajpal, Kuwar Pratap Singh, Dr. Vasavi Ravuri, Kusumalatha Karre, and Dr. Shivashankar Reddy, **AI Based Consumer Based Behaviour Prediction Device**, Indian Design Patent, Application Number: 425641-001, Submitted on 02.08.2024 (**Granted on 25.09.2024**).
3. **Dr. Chethan K S**, Prof. Uma Shivanna, Dr. J K Navis, Ashuthosh Gupta, Somesubhra Panda, Dr. Manasi Vyankatesh, Dr. Suraj Arya and Dr. Reeta Pawar, **IOT Based Controlling Device for Industrial Electrical Appliances**, Indian Design Patent, Application Number: 425642-001, Submitted on 02.08.2024 (**Granted on 27.12.2024**).
4. Dr. Pradyumna Singh Shekhawat, Dr. Ambar Bajpai, **Dr. Chethan Kanakapura Shivabasave Gowda**, Prof. Uma Shivanna, Dr. Afshan Kaleem, Jatin Verma, Parbhat Gupta and Dr. Sricheta Parui, **Wireless Medical Appliance Controlling Device**, UK Design Patent, Application Number: 6379400, Submitted on 19.07.2024 (**Granted on 26.07.2024**).
5. Dr. Manoranjan Kumar Sinha, Atulya Gupta, Gurpreet Kour, Rupam Kumari, Dr. Sricheta Parui, Dr. Vikrant Chole, **Dr. Chethan K S** and Dr. Subhrendu Guha Neogi, **Machine Learning- Driven Intrusion detection System for Secure Wireless Networks for Blockchain**, Indian Patent, Application Number: 2025421053201, Submitted on 11.07.2024 (**Published on 02.08.2024**).

## International Conferences: 09

1. Chethan K S and Dr. K R Nataraj, “*Automated Identification of Haemangioma based on CT-Scan Tumor Edge Detection*”, IEEE International Conference on Trends in Electronics & Informatics, ICOEI-2018, held at SCAD College of Engineering and Technology, Tirunelveli, Tamilnadu, INDIA, during 11<sup>th</sup> – 12<sup>th</sup> May, 2018, IEEE Xplore, **ISBN: 978-1-5386-3579-4**, pp. 813-818.
2. Chethan K S and Dr. K R Nataraj, “*Analysis of Image Quality using Sobel Filter*”, Third International Conference on Inventive Systems and Control, ICISC-2019, held at JCT College of Engineering and Technology, Pichanur, Coimbatore, Tamil Nadu, INDIA, during 10<sup>th</sup> – 11<sup>st</sup> Jan. 2019, **ISBN: 978-1-5386-3950-4**.
3. Chethan K S, Sinchana G S, Roopa K Swamy, “*Impact of Bandwidth on LANDSAT-7 ETM+ Image quality using Gaussian filter*”, IEEE International Conference on Advances in Information Technology, ICAIT-2019, held at AIT, Chikkamagaluru, Karnataka, INDIA, during 25<sup>th</sup>27<sup>th</sup> July2019, **ISBN: 978-1-7281-3241-9**
4. Chethan K S, Arjun Raj A “*Face Recognition based smart attendance system*”, 2020 International Conference on Intelligent Engineering & Management, ICIEM-2020, held at Amity School of Engineering & Technology, London, United Kingdom, during 17<sup>th</sup> -19<sup>th</sup> June 2020, **ISBN: 978-1-7281-4097-1**
5. Supreeth H V, Chethan K S, Purushotham U “*Identification of Ambulance Siren sound and analysis of the signal using statistical method*”, 2020 IEEE International Conference on Intelligent Engineering & Management, ICIEM-2020, held at Amity School of Engineering & Technology, London, United Kingdom, during 17<sup>th</sup> -19<sup>th</sup> June 2020, **ISBN: 978-1-7281-4097-1**

- 6 Purushotham U, Chethan K S, Manasa S, Meghana U, “***Speech Enhancement using Semi-Supervised***”, 2020 IEEE International Conference on Intelligent Engineering & Management, ICIEM-2020, held at Amity School of Engineering & Technology, London, United Kingdom, during 17<sup>th</sup> -19<sup>th</sup> June 2020, ISBN: 978-1-7281-4097-1.
- 7 Anjana Ivaturi, Ankita Singh, Chethan K S, “***Soft Classification Techniques for Breast Cancer Detection and Classification***”, 2020 IEEE International Conference on Intelligent Engineering & Management, ICIEM-2020, held at Amity School of Engineering & Technology, London, United Kingdom, during 17<sup>th</sup> -19<sup>th</sup> June 2020, ISBN: 978-1-7281-4097-1.
- 8 Purushotham U, L J Nagaraj, Chethan K S, “***Soft Audible Noise Masking in Single Channel Speech Enhancement for Mobile Phones***”, 2020 IEEE International Conference on Computation, Automation and Knowledge Management (ICCAKM), held at Amity University International Campus, Dubai, UAE, during 9<sup>th</sup>=10<sup>th</sup> Jan 2020, ISBN: 978-1-7281-0666-3.
- 9 Chethan K S, Sinchana G S, A L Choodarathnakara, “***Classification of Homogeneous sites using IRS-P5 satellite imagery***”, 2020 IEEE International Conference on Computation, Automation and Knowledge Management (ICCAKM), held at Amity University International Campus, Dubai, UAE, during 9<sup>th</sup>=10<sup>th</sup> Jan 2020, ISBN: 978-1-7281-0666-3.

## National Conferences: 09

1. Arpitha Sangan and Dr. Chethan K S, “**Melanoma Early detection and Prevention using Non-Invasive Real\_Time Automated skin lesion analysis system**”, 9th National Conference on “Recent trends in Electronics and Communication Engineering, S.J.B.I.T., Bangalore, 4<sup>th</sup> May2019.
2. Ankitha K and Dr. Chethan K S, “**A Practical animal detection and collision avoidance system**”, 9<sup>th</sup> National Conference on “Recent trends in Electronics and Communication Engineering, S.J.B.I.T., Bangalore, 4<sup>th</sup> May2019.
3. Chethan K.S, and A. L. Choodarathnakara, “**Decision Tree Approach for Image Data Classification**”, National Symposium on modern trends in Electronics & communications, KSHTIJA-2010, S.J.C.I.T., chickballapur,16<sup>th</sup> April, 2010
4. Chethan.K.S and Ujwala B.S., “**Cartoon Images - Watermark for Protection**”, 4<sup>th</sup> National conference on recent trends in Electronics & communication, SJBIT, Bangalore, 8<sup>th</sup> May2010.
5. Chethan K.S and Shwetha N, “**Optical Character recognition Using ANN**, National Symposium on modern trends in Electronics & Communications, KSHTIJA- 2010, S.J.C.I.T., chickballapur,16<sup>th</sup> April 2010
6. Chethan K.S and Bindu K, “**Fuzzy in Supervised image Classification: A Review**”, 4<sup>th</sup> National Conference on recent trends in Electronics & Communication SJBIT, Bangalore,8<sup>th</sup> May2010.
7. Chethan K.S and Jayanth., “**Fuzzy logic Approach for Image data Classification**”, 4<sup>th</sup> National conference on recent trends in Electronics & Communication SJBIT, Bangalore, 8<sup>th</sup> May2010.
8. Chethan K.S. and Ramya C.N “**Multimodal biometrics System using Phase-based Matching technique**”, NCETCS-2010 held at Atria Institute of Technology, Bangalore,26<sup>th</sup> - 28<sup>th</sup>Aug. 2010
9. Chethan K.S. and Varun S. Gangoor, “**Integer wavelet-based Bit-plane complexity Segmentation Image Steganography**”, NCIPV-2009, held at PESCE, Mandya, 24<sup>th</sup>to 25<sup>th</sup> Aug-2009

#### **4. SUBJECTS TAUGHT:**

- |                              |                                   |
|------------------------------|-----------------------------------|
| 1. Signals & Systems         | 2. Digital Signal Processing      |
| 3. Digital Image Processing  | 4. Advanced Image Processing.     |
| 5. Control Systems.          | 6. Multimedia Communication       |
| 7. Communication Engineering | 8. Bio-medical Signal Processing. |
| 9. Modern DSP                | 10. Basic Electronics             |
| 11. Network Analysis         | 12. Artificial Neural Networks    |

#### **DECLARATION:**

I hereby declare that all the information furnished above is correct and complete to the best of my knowledge and belief.

**(Dr. Chethan K. S)**