

# Resume

## **Personal Details:**

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Name: **Tella Anil Raju**

Email: raju.iisc@gmail.com

Contact: 9989900350.

## **Education:**

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- **M.E in Signal Processing.**
  - Indian Institute of Science, Bangalore, in 2007.
- **B. Tech in Electrical and Electronics Engineering.**
  - Lakireddy Bali Reddy College of Engineering was affiliated with Jawaharlal Nehru Technological University, Hyderabad, in 2002.

## **Examination Qualified:**

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- GATE:
  - Percentile: 99:30
  - All India Rank: 131

## **Professional (Work) Experience: 21 Years**

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- Working as an Associate Professor in the ECE Department at Lakireddy Bali Reddy College of Engineering from June 2012 to date.
- Worked as an Assistant Professor in the ECE Department at Lakireddy Bali Reddy College of Engineering from December 2007 to May 2012.
- Worked as an Ad hoc faculty in DDWTTI Polytechnic College from Aug 2002 to Mar 2004.

## Research Projects:

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- In-House Seed Money Project under development of R&D activities in LBRCE of an amount of Rs 1,05,000 has been sanctioned for the project titled “**Early breast cancer detection using Deep learning and NVIDIA Jetson Nano Developer Kit**” on 04-01-2022.

## Books and Book Chapters:

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- **T. Anil Raju**, K. Srihari Reddy, K. Saikumar Reddy, and K. Girija Sravani, Book chapter on “**Tumor Detection Using Morphological Image Segmentation with DSP Processor TMS320C6748**” published in Machine Learning Techniques for VLSI Chip Design, Scrivener Publishing, Wiley.

## Patents:

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- An Australian patent entitled “**Automated Agricultural System Based on Bluetooth Technology**” was published in 2022. (*Grant Certificate No: 2021104928*).

## Journals:

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1. **T. Anil Raju**, S. Gayathri, V. Jayanth, T. Pawan Kalyan “Breast cancer segmentation with preprocessing and DNN” in International Journal of Engineering Research and Technology (IJERT), Vol-12, Issue 03(March 2023), ISSN:2278-0181.
2. **T. Anil Raju**, P. Kavya Sri, D. Yaswanth Sai Kumar, S. Amala, Yaseen Arafath, “Diabetic Retinopathy Detection from Retinal Images Using BPNN and One Rule Classifier”, in TEST Engineering & Management, Vol-83, pp. 17401-17409, May 2020, ISSN: 0193-4120, H.Index-5.
3. **T. Anil Raju**, B. Uma Maheswari, N. Charan Teja, Ch. Sandhya, Ch. Sai Kalyan, “Brain Perfusion Quantification and Functional Analysis of Quadra-Echo Arterial Spin Labeling”, in *International Journal of Advanced Science and Technology*, Vol. 29, Issue 6, pp.3204-3212, April 2020, ISSN: 2005-4238, H. Index-4.
4. Danala Madhuri, **T. Anil Raju** “Latent and power-optimized AES Cryptography system using Scan Chain Reordering” in International Journal of Engineering in Advanced Research Science and Technology, ISSN: 2350-0328, Vol 2, Issue.3, PP-936- 942, December-2018.

5. **T. Anil Raju**, Sk. Yasin Ahammad, P. Anil Kumar, G.Prakash, "Brain Tumour Segmentation using Evolutionary Computation Techniques in MRI Images" International Journal of Research in Electronics and Computer Engineering (IJRECE), Volume 6, Issue 1, Mar 2018, ISSN: 2393-9028-UGC approved Journal.
6. B. Rajeswari, **T. Anil Raju**, S. Shamili "Fixed Key point Preserving for Face Recognition under Non-Uniform Illumination Conditions "International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue X, October 2017, ISSN: 2321-9653, UGC Approved Journal.
7. Ch. V. Naga Bhaskar, **T. Anil Raju**, K. Srinivasa Lokesh "Chessboard Recognition and Object movement Identification System Using Real-Time Principal Component Analysis Technique" International Journal of Robotics and Information Technology, November 2017, Volume 1, Issue 1, ISSN: 2001-5569, UGC Approved Journal.
8. **T. Anil Raju**, K.L. Kartheek "Automatic Detection of Pathogenic Diseases on Leaves" International Journal of Innovative Research in Technology, September 2016, Vol-3 Issue 4, ISSN 2349-6002.
9. B. Rajeswari, **T. Anil Raju**, "Synchronization Likelihood - a Non-Linear Multivariate Technique for finding Functional Connectivity" International Journal of Innovative Research in Technology, May 2017, IJIRT, Volume 3 Issue 12, ISSN: 2349-6002.
10. **T. Anil Raju**, B. Ajanta Reddy, N. Adinarayana "Implementation of Panoramic Image Mosaicing using Complex Wavelet Packets" European Journal of Advances in Engineering and Technology, 2015, 2(12): 25-31, ISSN: 2394 - 658X.
11. **T. Anil Raju**, B. Ajanta Reddy" Extraction of Hidden features using preprocessing techniques and texture analysis for face recognition" International Journal of Advanced Research in Electronics and Communication Engineering, Vol-4, Issue-8, ISSN:2278-909X. August 2015.
12. **T. Anil Raju**, B. Ajanta Reddy, N. Adinarayana" Face Skin Color Based Recognition Using Local Spectral and Gray Scale Features" Volume: 04 Issue:05, MAY-2015 International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308.

### Conferences:

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1. **T. Anil Raju**, B Rajeswari, Meghana Palagani, Allam Papa Rao "Deep Learning-based Lung Cancer Classification with Chest X-Ray" in 2<sup>nd</sup> international Conference on Evolutionary Artificial Intelligence (ICEAI-2024).
2. **T. Anil Raju**, M. Venkateswarlu, Y. Sai Narasimha, G. Sri Lasya, "Ischemic stroke segmentation in brain MR Images using 3D CNN" 2023 IEEE International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience and Nanotechnology (5NANO 2023).

3. **T. Anil Raju**, V. Jayanth, S. Gayathri, T. Pawan Kalyan "Breast Cancer Classification and Segmentation using Boosting Algorithms and U-Net" with Paper ID (IST-BDE-THNE-140423-4248) International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 12 Issue 03, March-2023
4. B. Rajeswari, P. Abdul Khayum, and **T. Anil Raju**, "Dynamic Susceptibility contrast perfusion Quantification using Spread Bases function", ICSPECS-2019(International Conference on Advances in Signal Processing, Power, Embedded, Soft Computing, Communication, and Control Systems) ISBN: 978-81-939929-3-7.
5. **T. Anil Raju.**, P. Baby Sudha, B.Rajeswari, "Wavelet Entropy Measure to Quantify Information Transmission in Human Cerebral Cortex," IEEE conference ACNCN-2012
6. **T. Anil Raju.**, P. Baby Sudha, presented a paper titled " An Efficient Medical Images Compression Using SPIHT Data Organization and LZW coding" along with the prescribed format to be considered and published in the ICSCI-2011 Proceedings of International Conference-January 5-8,2011.

#### **Certification Courses:**

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1. NPTEL online certification course (12 weeks) on "**Deep Learning**" in the year 2023.
2. NPTEL online certification course (12 weeks) on "**Joy of computing using Python**" in the year 2022.
3. NPTEL online certification course (4 weeks) on "**Medical Image Analysis**" in the year 2020.
4. NPTEL online certification course (8 weeks) on "**Basic Linear Algebra**" in the year 2020.
5. Coursera online certification course (4 weeks) on "**Neural Networks and Deep Learning**" in the year 2020.
6. NPTEL online certification course (12 Weeks) on "**Basic Electric Circuits**" conducted by IIT Kanpur in the year 2019.
7. NPTEL online certification course (4 weeks) on "**Research Writing**" conducted by IIT Madras in the year 2017.
8. NPTEL online certification course (12 Weeks) on "**Basic Electronics**" conducted by IIT Bombay in the year 2017.

#### **Workshops/FDPS:**

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1. A Five-day FDP on "Recent Trends in Advanced Signal Processing" organized by Electronics and ICT Academy at NIT Warangal from 25-08-2022 to 30-08-2022.

2. A Five-Day course on “Technology-driven approaches for Neurodevelopment and Neurodegenerative Disorders” organized by GIAN at NIT Warangal from 26-03-2022 to 30-03-2022.
3. A Five-day online FDP on “Simulation of Computer Networks” organized by LBRCE, Mylavaram from 22.06.2020 to 26.06.2020.
4. One Week Online FDP on "Deep Learning & Its Applications" hosted by LBRCE, Mylavaram during 15<sup>th</sup> -20<sup>th</sup> June 2020.
5. A Ten-Day online FDP on “Data Science using Python” organized by the Department of IT, LBRCE, Mylavaram from 15.05.2020 to 24.05.2020.
6. A Webinar on “Speech Signal Processing” organized by the Department of CSE, LBRCE, Mylavaram on 17-05-2020.
7. A Two-day online workshop on “Intellectual Property Rights” from 10<sup>th</sup>- 11<sup>th</sup> May 2019 by IPPO & PDPU.
8. A Webinar on “Virtual Classroom Management using Microsoft Teams” organized by the Department of CSE, LBRCE, Mylavaram on 11-05-2020.
9. A Five-day online FDP on “Image and Embedded Processing” hosted by NITTTR, Chandigarh from 27.04.2020 to 01.05.2020.
10. Five-Day FDP on “Digital Signal Processors, Embedded Systems and IoT” hosted by Electronics & Communication Engineering Department during 11<sup>th</sup> -15<sup>th</sup> February 2019, LBRCE, Mylavaram.
11. Winter FDP on “AI and Machine Learning” during 17<sup>th</sup> to 21<sup>st</sup> December, 2018, organized by Electronics & ICT Academies at IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, and NIT Patna.
12. One Week Faculty Development Program on “New Algorithms for Signal Processing Hands on” during 20<sup>th</sup> to 27<sup>th</sup> April 2018, LBRCE, Mylavaram, in association with E&ICT Academy, NIT Warangal.
13. AICTE Sponsored Seminar on “Advanced Digital Image Processing Techniques” during 15<sup>th</sup> -16<sup>th</sup> December -2017, N.B.K.R Institute of Science and Technology.
14. One Week FDP on Design and Analysis of RF Antennas Using HFSS during 13<sup>th</sup>-18<sup>th</sup> November 2017 at LBRCE, Mylavaram.
15. A Three-day workshop on “Design and Analysis of RF Antennas Using HFSS” during 28<sup>th</sup>-30<sup>th</sup> November 2016 at LBRCE, Mylavaram.
16. A Two-day workshop on “Embedded Development Tools” during 23<sup>rd</sup> - 24<sup>th</sup> Nov 2016, LBRCE, Mylavaram.

17. One-week faculty development program on “Recent trends in VLSI and Embedded Systems from 26th Sep - 01st Oct 2016, LBRCE, Mylavaram.
18. Two-day FDP on “Advanced MATLAB Tools and Simulink in Engineering Applications” from 20th Sep to 21st Sep 2016, LBRCE, Mylavaram.
19. One-week Faculty Development Program on “Recent Trends in Systems and Signal Processing” from 22<sup>nd</sup> to 27<sup>th</sup> December 2014 at LBRCE, Mylavaram.

## **Memberships**

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- Member of IEEE.
- IETE Membership
- ISTE Membership

## **Programming Languages**

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- C Language, Python, and MATLAB.
- Deep Learning Frameworks: TensorFlow, Keras.
- Scientific Computing Tools: Scikit, NumPy, Pandas, OpenCV.

**T. ANIL RAJU**