RESUME

Mobile: **+91-9966050337** Email ID**: 402.raju@gmail.com**

CAREER OBJECTIVE

I would like to devise captivating, fascinating, and unique practices of teaching that creates interest in the students. With the help of my cordial nature, I would like to build good rapport with students as well as teachers around me.

I. EDUCATION PROFILE

1. Ph.D. pursuing in Andhra University in the area of Image Processing (Supervisor: Prof. M.V.S. Sairam, Dept. of ECE, Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam, AP

2. AICTE QIP-PG — AI-Powered Computer Vision for Smart Agriculture and Health Care Applications, NIT Warangal, 2025

3. M.Tech. (Digital Systems and Signal Processing) from GITAM University, Visakhapatnam (First Class with distinction) in 2010.

4. B.Tech. (ECE) from Thandrapaparaya Institute of Science and Technology, Affiliated to J.N.T.U, Hyderabad with First Class in 2008

5. Diploma (ECE) from Govt Polytechnic College, Narsipatnam in 2005

6. SSC from Z.P High School,Lankalapalem with First Class in 2001.

II. WORK EXPERIENCE

1. Working as Assistnat Professor in Department of Electronics and Communication Engineering, Gayatri Vidya Parishad College for Degree and PG Courses (A), Rushikonda, Visakhapatnam. Since 12th June 2023.

2. Worked as Associate Professor in Department of Electronics and Communication Engineering, Chaitanya Engineering College, Visakhapatnam. From 10th June 2013 to 09.06.2023.

3. Worked as Assistant Professor in Department of Electronics and Communication Engineering, Swamy Vivekananda Engineering College, Bobbili. From 12th June 2010 to 31st May 2013.

III. JOURNAL ARTICLES

1. Egala, R., & Sairam, M. V. S. (2025). "Multi-instanceRiemannian residual neural network with mountaineering team-based chest disease detection using chest X-ray images." ***Research on Biomedical Engineering, 41(3), 44.***

2. Egala, R., & Sairam, M. V. S. (2025). "Multi-layer stacked residual coordinate termite alate network for multi-class lung diseases detection from chest X-ray images." ***Applied Soft Computing, 179, 113393*****.**

3. Korrai, S., Nemani, R., Mediboyana, H., **Egala, R**., Sairam, M. V. S., & Achanta, S. S. (2025). "Groundwater quality evaluation and prediction using irrigation indices:

pyramidal convolution split-attention networks with atomic orbital search algorithm." ***Hydrological Sciences Journal, 70(11), 1913-1928***.

4. M. V. S. Sairam and **R. Egala**, "Artificial Intelligence-Powered Cyclone Classification Framework Using MobileNetV1 and Goose Optimizer: Climate-Resilient Farming," *Int. Res. J. Adv. Sci. Hub (IRJASH)*, vol. 7, no. 4, Apr. 2025.

5. M. V. S. Sairam and **R. Egala,** "Transfer learning-based convolutional neural network for six-class lung disease classification," *Int. Res. J. Adv. Eng. Hub (IRJAEH)*, vol. 3, no. 1, pp. 52-60, Jan. 2025, doi: 10.47392/IRJAEH.2025.0007.

6. **R. Egala**, M. V. S. Sairam, and J. Anusha, "Improving Cognitive Radio Network Performance Using AlexNet," *Int. J. Curr. Sci. (IJCSPUB)*, vol. 15, no. 1, pp. 174–181, 2025.
7. M. V. S. Sairam, **R. Egala**, H. Rajasekhar, and K. S. Nohith, "Deep Learning-Based Spectrum Management to Enhance the Performance of Cognitive Radio Network Using MobileNet," *IRE J.*, vol. 8, no. 6, pp. 274–279, 2024.
8. **R. Egala,** and M.V.S. Sairam "A Review on Medical Image Analysis Using Deep Learning" Eng. Proc. 2024, 66, 7. https://doi.org/10.3390/engproc2024066007.
9. M. V. S. Sairam and **R. Egala**, "Energy Detector with Adaptive Optimal Threshold for Enhancing Spectrum Sensing in Cognitive Radio Network," *Int. J. Latest Technol. Eng., Manag. Appl. Sci.*, vol. 1, 2024.

10. H. Rajasekhar, M. V. S. Sairam, and **R. Egala**, "SLM-Based PAPR Reduction in OFDM System Using Four Distinct Matrices," *IJRAR-Int. J. Res. Anal. Rev.*, vol. 13, 2024.

11. M. V. S. Sairam, **R. Egala**, and K. S. Nohith, "Deep Learning Framework for Enhancing the Performance of Cognitive Radio Network," *J. Emerg. Technol. Innov. Res. (JETIR)*, vol. 11, no. 11, 2024.

12. **Raju Egala**, M.V.S. Sairam "A Comprehensive Review on the Detection of Critical Cancers through Deep Learning Approaches" Journal of Xidian University VOLUME 17, ISSUE 11, 2023.

13. Koustubha Priya Mudigonda, **Raju Egala** "A Deep Learning model for COVID-19 Classification using Chest X-Ray Images" Journal of Engineering Sciences Issue 05 vol 14, pp 871-881,2023.

14. Sarada K, **Raju E "**Implementation of Filter bank Multi Carrier System Using Doubly Selective Channel Estimation" The International Journal Of Analytical And Experimental Modal Analysis, issue. 4, vol. 13, pp. 600-611, Apr. 2021.

IV. BOOK CHAPTER

1. M. T. Pawar**,** M. V. S. Sairam, **R. Egala**, M. Karthik**, and** R. Reka, "Artificial Intelligence in the Power Sector tackling climate changes," *Artificial Intelligence in the Power*, 2025.

V. CONFERENCE PAPERS

1. Sairam, M. V. S., Biswal, B., Bodasingi, N., & **Egala, R**. (2025). Network Using Multiple Fusion Centers. ***Micro-electronics and Telecommunication Engineering: Proceedings of 8th ICMETE 2024, 125.***

2. S. R. Barkunan, J. Radha, **R. Egala**, R. K. Singhal, M. A. Alkhafaji, and B. Sefeer, "A Novel Mobile Dropping Sensing to Protect Using Inertia Sensor and Integration of DL Technology," in *Proc. 2024 4th Int. Conf. Adv. Comput. Innov. Technol. (ICACIT)*, 2024.

VI. PATENTS

1. Title: MEDICAL IMAGE ANALYSIS DEVICE FOR DIAGNOSIS OF DISEASES.
   Grant date: 19 September 2023.
   Country: UK
2. Title: DISASTER MANAGEMENT ALERT DEVICE
   Grant date: 23 November 2023.
   Country: UK.

3. Title: DEEP LEARNING-ENABLED VIBRATION MONITORING SYSTEM FOR SATELLITE LAUNCH VEHICLES WITH GPS PAYLOADS
   Publication date: 16 December 2024.
   Country: India.
4. Title: ENERGY-EFFICIENT ANTENNA DESIGN FOR WEARABLE IOT DEVICES IN HEALTHCARE APPLICATIONS
   Publication date: 13 December 2024.
   Country: India.

VII. FACULTY DEVELOPMENT PROGRAMS

1. Faculty Development Program on Artificial Intelligence in Agriculture and Health, conducted by E&ICT Academy, IIT Guwahati in association with Department of EECE, GITAM Deemed to be University, Visakhapatnam, 22–26 September 2025.
2. Participated a 40 hours Faculty Development Program on Machine Learning and Data analytics using PYTHON sponsored by ministry of electronics and information technology (Meity) Government of india organized by E&ICT Academy NIT Warangal, 5–14 March 2025..
3. *AICTE ATAL Academy Faculty Development Program (2024) Completed FDP on "Outlook on Best Practices and Strategies for Chip Design Implementation – From Industry Perspective" Gayatri Vidya Parishad College for Degree and PG Courses (A)* 16–21 December 2024.
4. Participated a 10 hours National Faculty Development Program on NLP, Computer Vision and Artificial Intelligence organized by Andhra Pradesh State Skill Development Corporation (APSSDC), 4–8 December 2023.
5. Participated a 10 hours National Faculty Development Program on Machine Learning and Artificial Intelligence organized by Andhra Pradesh State Skill Development Corporation (APSSDC), 13–17 November 2023.
6. Completed Deep Learning, organized by NPTEL-AICTE.
7. Completed Machine Learning, organized by NPTEL-AICTE.
8. Completed Introduction Internet of Things organized by NPTEL-AICTE.

VIII. NPTEL COURSES

1. Deep Learning
2. Machine Learning
3. Cloud Computing
4. Internet of Things

IX. SEMINARS AND WORKSHOPS ATTENDED.

1. Five day National E-Workshop on Medical image analysis using Artificial Intelligence organized by Gayatri Vidya Parished College of Engineering(A), Visakhapatnam April 2023
2. One day webinar on Writing A Research Paper For Good Indexed Journals organized By DIET Engineering college Anakapalli in May 2020
3. One day webinar on Digital Logic design using VLSI organized By Sri Chandrasekharendra Saraswathi ViswaMahavidyalaya May 2020
4. Two Day's Workshop on Embedded And MAT LAB Programming at swamy Vivekananda engineering college in Sep 2012.
5. Two Day's Workshop on Chip Design And Ecad Tools at swamy Vivekananda engineering college in Aug 2012.
6. Two Day's Workshop on security in Embedded at JNTUK Vizianagaram in Dec 2011.

X. SUBJECTS TAUGHT

1. Digital Image Processing
2. Pulse & Digital Circuits
3. Linear IC Applications
4. Signals & Systems
5. Digital Signal Processing
6. Embedded Systems
7. Computer Networks
8. Internet of Things

9. Machine Learning and Deep Learning

XI. ADMINISTRATIVE EXPERIENCE

- Worked as Head of the Department
- In-charge, College Examination Cell

XII. PROGRAMING SKILLS:

- PYTHON
- MATLAB
- PSPICE

PERSONAL DETAILS

Name : Raju Egala.
Father's Name : Appalanaidu.
Date of Birth : 08-08-1986
Marital Status : Married
Nationality : Indian
Address : Flat No.: 303, Sree Towers, Akkayya Palem, Visakhapatnam

DECLARATION

I hereby declare that all the data and information provided above are true and correct to the best of my knowledge and I hold responsible myself for any irregularities if found.

RAJU EGALA