

JAGADEESWAR REDDY VADDAMANI

Assistant Professor

[GitHub](#) | [LinkedIn](#) | [Portfolio](#) | [Email](#) | **Phone:** +91 6301448963 | **Location:** Kadapa, India

PROFESSIONAL SUMMARY

M.Tech graduate in Artificial Intelligence and Machine Learning with academic and research experience as an Assistant Professor. Skilled at explaining complex concepts, mentoring students, and driving AI/ML projects to publication. Contributor to research with a patent in AI applications, deep learning model development, and conference presentations.

EDUCATION

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| M.Tech (AIML) , IIIT RGUKT RK Valley | 2025 CGPA: 8.6/10 |
| B.Tech (CSE) , YSR Engineering College of YVU | 2022 CGPA: 7.8/10 |
| Diploma (CSE) , Loyola Polytechnic College (YSRR) | 2019 Percentage: 88% |
| SSC , Swamy Vivekananda High School | 2016 CGPA: 9.0/10 |

EXPERIENCE

- **Assistant Professor, CSE(AI & ML)** – Annamacharya Institute of Technology & Sciences (Autonomous), Kadapa Aug 2025 – Present
 - Teaching AI and Machine Learning courses for undergraduates.
 - Guiding projects and assisting in departmental research initiatives.

CONFERENCES

International Conference on Knowledge Engineering and Information Systems (KEIS-2025),

- Published in ITM Web of Conferences, Volume 79 (2025), Article Number: 01057
- DOI: [10.1051/itmconf/20257901057](https://doi.org/10.1051/itmconf/20257901057)
- **Title:** Integrated U-Net 3+ with Decomposed Multi-head Self-Attention Block and Filter Response Normalization for Brain Lesion Localization and Tracking using 3D MRI
- **Author:** Vaddamani Jagadeeswara Reddy
- **Published Online:** October 8, 2025
- **Publisher:** EDP Sciences (Open Access under CC BY 4.0)
- **Certificate:** [View Certificate](#)

National Level Conference on Emerging Trends in Artificial Intelligence and Network Security (ENTAINS-2025),

- Certificate of Presentation – Santhiram Engineering College, Kurnool, A.P.
- ISBN: 978-1-2345-6789-0
- Date: March 28, 2025
- **Certificate:** [View Certificate](#)

PROJECTS

Fruit Classification using Transfer Learning (Python, TensorFlow/Keras, OpenCV) [GitHub](#)

- Built a deep learning model leveraging pre-trained CNNs like ResNet, VGG, and Inception for feature extraction.
- Optimized using data augmentation and fine-tuning to improve accuracy and reduce training time.

Speech Emotion Recognition using CNN

[GitHub](#)

- Developed a CNN-based model to classify speech emotions (Neutral, Happy, Angry, Sad, Fear, Disgust, Surprise) with 85% accuracy.
- Applied spectrograms, MFCC, ZCR for feature extraction.

Improving Medical Image Quality Using GANs

[GitHub](#)

- Developed a GAN-based model to enhance resolution and clarity of medical images, improving diagnostic accuracy.
- Implemented advanced architectures like ESRGAN and U-Net for super-resolution tasks.
- Presented at National Conference on Emerging Trends in AI and Network Security (2025).

PATENTS

- **AI-Driven Synthetic Biology Designing Novel Organisms for Environmental Remediation** – The Patent Office Journal No. 34/2025, Application No. 202541074794A, Aug 22, 2025 (India)

FDP / WORKSHOPS

- One-Week Short Term Course on **Research Methodology**, UGC-MMTTC, JNTU Hyderabad, 15th–20th Sept 2025.
- FDP on **Advanced AI Applications in Research Paper Writing**, KSR College of Engineering, Tiruchengode (in association with Book Bytes), 27th April 2025.
- FDP on **Internet of Things**, B.E.T Sadathunnisa Degree College, Bangalore (in association with PencilBitz), 17th May 2025.
- FDP on **Understanding IPR: Research, Patents, Copyrights, Trademarks, and Scholarly Writing**, Malla Reddy College of Engineering, Telangana (in association with PencilBitz), 26th June 2025.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java
- **Machine Learning/Deep Learning:** TensorFlow, Keras, Scikit-learn, Pandas, NumPy
- **Data Science/Visualization:** Jupyter Notebook, Matplotlib, Seaborn, OpenCV
- **Databases:** MySQL, SQLite, PostgreSQL
- **Web Development:** React, REST APIs, HTML, CSS, jQuery
- **Version Control:** Git, GitHub

CERTIFICATES

- One-Week Short Term Course on **"Research Methodology"** | UGC-MMTTC, JNTU Hyderabad | 2025 [View Certificate](#)
- Computer Networks and Internet Protocol | **NPTEL** | 2022 [View Certificate](#)
- Data Mining | **NPTEL** | 2022 [View Certificate](#)
- Enhancing Soft Skills and Personality | **NPTEL** | 2022 [View Certificate](#)
- Certificate of Appreciation – International Yoga Day | **RGUKT RK Valley** | 2025 [View Certificate](#)
- **Certificate of Excellence, Winner** – Mock Sports Auction, **RGUKT RK Valley**, Aadhya PreEvents [View Certificate](#)