Sadhula Ranganathan

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EDUCATION

Lakireddy Bali Reddy College Of Engineering   A.P, India
BTech in Computer Science Engineering(AI&ML) (CGPA 8.7/10)   *Nov 2021 – June 2025*

Sri Chaitanya Junior College   A.P, India
Higher Secondary Education   *June 2018 – May 2020*

INTERNSHIP

AI/ML Intern   May 2024 – July 2024
MsSquare Technologies   *Vizag, India*
1. Designed and developed a Hand Gesture Recognition System using Deep Learning and Computer Vision.
2. Built an Emotion Detection system leveraging Convolutional Neural Networks (CNNs) to accurately .

AI/ML Intern
Taras System And Solutions(Hand's On Training Experience)
1. Designed and developed a Hand Sign Calculator using Deep Learning and Computer Vision for real-time.
2. Developed a Drowsiness Detection system using OpenCV and deep learning models to enhance driver safety.
3. Integrated Daily WhatsApp Analysis project by applying Natural Language Processing (NLP) and Data Visualization.

PROJECTS

Traffic Clearance System For Ambulance / YOLOv5, RasPi-4, IoT, Google Cloud

- Developed an AI-powered traffic clearance system for ambulances, using YOLOv5 and LSTM to detect emergency vehicles in real-time.
- Integrated IoT sensors and Flask-based backend to automate traffic signal control, reducing emergency response time.
- Hosted the system on Cloud Platform for scalable and efficient deployment.

Hand Gesture Recognition System / YOLOv8, LSTM, OpenCV, Flask

- Built a real-time hand gesture recognition system to translate sign language into text/audio, improving accessibility for the hearing-impaired.
- Utilized YOLOv8 and LSTM for accurate gesture detection and classification.

E-Commerce Platform | HTML, CSS, MySQL, React.js, Php

- Developed and deployed a fully functional eCommerce website, allowing businesses to establish an online presence.
- Hosted the platform on Git Bash for high availability and scalability.

SKILLS

Programming Languages: C, Python, Java
Technologies & Libraries: Machine Learning (ML), Deep Learning (DL), Computer Vision, TensorFlow
Tools & Platforms: AWS, Hadoop, Google Cloud
Database: MySQL, PostgreSQL, PHP

CERTIFICATIONS

Microsoft's Cloud-Microsoft Azure Administrator Associate / **Skill Shop**-Google Analytics/ **IBM** / **Taras/DL** / **AWS**-AWS Cloud

Achievement

Best Project Award (Recognized By NIT-Professor)   Project Review-2025
LBRCE   *Apr. 2025 – 26*
Second Prize (National Level Project Paper Presentation Event)   StepCone-2025
GMR Institute of Technology   *Feb. 2025 – 27 to 28*