

# PRAJWALAJARUGU

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## EDUCATION

<b>B.Tech in Computer Science and Engineering – VIT, Amaravati</b>	<b>CGPA: 8.00</b>	<b>(2022–2026)</b>
<b>Class XII – Venkatreddy Siddhartha junior college, Madanapalli</b>	<b>85%</b>	<b>(2022)</b>
<b>Class X – Narayana group of schools, Madanapalli</b>	<b>CGPA: 10.0</b>	<b>(2020)</b>

## PROFESSIONAL EXPERIENCE

### Real-Time Sentiment Analysis Chatbot – Teachnook Internship Project

- Built an AI chatbot using NLP techniques to classify user sentiment as Positive, Negative, or Neutral.
- Achieved over 92% accuracy using Logistic Regression and SVM after text preprocessing and TF-IDF vectorization.

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## SKILLS

**Programming:** HTML, Java, Python, MySQL

**Marketing:** Strategy, Fundraising, Research

**Soft Skills:** Communication, Leadership, Problem Solving

**Languages:** English, Telugu

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## CERTIFICATIONS

- Blackbucks Certified: Full Stack MERN
- Excel – Business Fundamentals and Tools
- AWS Academy Graduate – Cloud Architecting
- AWS Academy Graduate – Cloud Foundations

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## PROJECTS

- **IoT-Based Smart Fire Extinguisher System**  
Designed and implemented a fire detection and automatic suppression system using Raspberry Pi, flame sensors, and a relay-controlled extinguisher. Enabled real-time alerts and automatic response to fire events for enhanced safety.
- **Raspberry Pi-Powered Automatic Dustbin**  
Built a smart dustbin using Raspberry Pi, ultrasonic sensors, and servo motors to enable touchless lid opening. Aimed at promoting hygiene in public spaces through motion-activated waste disposal.
- **Real-Time Human Activity Recognition System**  
Built a CNN-LSTM hybrid model to classify activities like walking, running, and sitting using sensor data. Achieved high real-time prediction accuracy; under review for journal publication.
- **OrganiQ-Net: Organ Viability Prediction**  
Developed a CNN + LSTM + LightGBM model to predict organ viability from imaging, time-series, and clinical data. Achieved 95%+ accuracy; published at the 19th IEEE Conference.
- **Todo List Web Application (MERN Stack)**  
Designed and deployed a full-stack task manager with secure JWT-based login, MongoDB persistence, REST APIs, and a React.js UI. Enabled full CRUD and real-time updates.
- **CropDxHybridNet: Hybrid AI Model for Crop Disease Prediction**  
Built a CNN-LightGBM-PINN hybrid model to detect and predict crop diseases using images and environmental data. Achieved high accuracy by integrating spatial, tabular, and biophysical inputs for early diagnosis.

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## EXTRA-CURRICULARS & ACHIEVEMENTS

- Attended sessions and workshops organized by campus clubs to explore interests in public speaking, tech, and entrepreneurship
- Volunteered in small roles during college fests and departmental events

- Member of online AI and coding communities to stay updated with trends and innovations

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## PUBLICATIONS

- **Real-Time Human Activity Recognition using CNN-LSTM**

Accepted at *INDIACom-2025 (IEEE Conference ID: 66777 — SCOPUS Indexed)*, 12<sup>th</sup> International Conference on Computing for Sustainable Global Development, Bharati Vidyapeeth, New Delhi – Awaiting Publication

- **OrganiQ-Net: Hybrid AI Model for Organ Viability Prediction**

Accepted at 5<sup>th</sup> International Conference on Intelligent Systems and Machine Learning (ICISML-2025), NIT Meghalaya, India – Awaiting Publication