

# KAJA NAGA VENKATA SAI ROOP ABIJITH



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Abijith K N V S R



Computer science student with strong skills in Python, Java, HTML, and CSS. Passionate about AI, deep learning and natural language processing. Eager to apply technical knowledge and problem-solving abilities in a dynamic tech environment.

## EDUCATION

### B.Tech in Computer Science and Engineering

- Kalasalingam Academy of Research and Education | Expected 2026
- Specialization: Artificial Intelligence and Machine Learning
- CGPA: 8.7/10.0

### Intermediate Education

- Sri Chaitanya co-ed jr College, Andhra Pradesh
- Year of Completion: 2022
- Percentage: 89.5%

## TECHNICAL SKILLS

- Core Areas: Proficient in HTML, CSS, JavaScript and Java,Python

## CERTIFICATIONS

- DATABASE MANAGEMENT SYSTEMS: Completed all the modules in Database Management Systems provided by CodeChef.
- Design and Analysis of Algorithms: Completed all the modules in Design and Analysis of Algorithms provided by CodeChef.
- 2024 Certified Web Developer trained by RINEX Technologies Pvt.Ltd
- ACM DISFRUTAR 2K24 (September 2024): Participated in the 24 Hrs. Boot Camp & 24 Hrs. Hackathon organized by KARE ACM Student Chapter.
- VINTRA 2024 Fest Participation (October 2024): Participated in the Inventia-2k24 and Code Craft 2k24 events organized by the Department of Computer Science & Engineering, KARE.
- EUPHORIA '24 (March 2025): Participated in the "X SPARK" event organized by the School of Agriculture and Horticulture, KARE.
- IEEE SPAx (August 2025): Participated in the "SPAx - Building the future of Professionals" event conducted by KARE - IEEE.

## PROJECTS

### 1. Attendance system using cloud Encryption

- Built a web application that delivers a seamless and user-friendly experience for managing attendance records.
- Technologies: Python, Django, HTML, CSS, Bootstrap, GCP

MAR 2023

## **2. Toxic Comment Detection on Reddit using NLP and BERT**

- Built an AI system to detect toxic Reddit comments using BERT and NLP. It filters harmful comments and saves safe ones. Used RapidAPI for data collection.
- Technologies: Python, BERT, NLP, RapidAPI

**DEC 2024**

## **3. A Semi-Automatic Robotic Agent for Pesticide Spray over infect-Prone Crops**

- Co-developed the "Sanjaya" AI-powered robotic system for real-time crop disease detection and precision pesticide spraying, addressing the issue of 40% crop loss.
- Technical Implementation: Utilized an ESP32-CAM to capture images and a proprietary CNN model for disease detection, controlling a DC pump via an L298N motor driver for automated spraying.
- Impact & Features: The IoT-enabled system provides real-time monitoring, ensures obstacle avoidance, and significantly reduces pesticide waste and labor costs, aiming to boost yields by up to 30%
- Technologies: Python, C, Machine Learning (CNN), Robotics, IoT (ESP32), Web Development

**MAR 2025**

## **INTERESTS**

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- Artificial Intelligence, Tech Gadgets, Sustainable Technology

## **LANGUAGES KNOWN**

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- English – Full Professional Proficiency
- Telugu – Native Proficiency
- Hindi – Limited Working Proficiency