

AKHIL SIVA CHOWDARY NANDIGAM

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EDUCATION

R.V.R & J.C College of Engineering

Guntur, Andhra Pradesh

Bachelor of Technology – Computer Science & Engineering (IoT); CGPA: 9.25

Jul 2024 – Present

- **Courses:** Data Structures & Algorithms, IoT, Operating Systems, DBMS, AI & ML, Web of Things (WoT)

Sri Chaitanya Junior College

Narasaraopet, Andhra Pradesh

Class XII; Grade: 94.8%

2024

RELEVANT EXPERIENCE

Full Stack Web Developer Intern | Certificate

Remote

Avishkar Tech Solutions

Oct 2025 – Jan 2026

- Built and deployed scalable client websites in a team environment, collaborating with cross-functional members to deliver production-ready solutions.
- Primarily responsible for Django backend development, server hosting, and database management; strengthened skills in teamwork and agile workflow.

PROJECTS

NovaMove [Link] | ESP32, Arduino Nano, VC-02, Servo SG90, HC-SR04, 28BYJ-48

- Designed and built an offline voice-controlled smart wheelchair integrating home appliance automation and an automated bed-conversion mechanism using stepper motors and a servo.
- Implemented multi-sensor obstacle avoidance with HC-SR04 ultrasonic sensors and seamless device communication via UART, I2C, and Bluetooth protocols.

ParkPulse [Link] | Raspberry Pi, SG90 Servo, HC-SR04, RADAR, HTTP/S, UART, SPI, I2C

- Developed an IoT-based Intelligent Parking and Access Control System that eliminates manual parking management and reduces traffic congestion using multi-sensor fusion (Radar + Ultrasonic).
- Integrated a cloud-based web dashboard for real-time slot occupancy visualization and an automated servo-driven barrier gate that locks out vehicles when the lot reaches maximum capacity.

Oil Spill Detection using CNN [Link] | TensorFlow, Keras, Scikit-learn, Matplotlib

- Built an AI-driven environmental surveillance system that detects oceanic oil spills in real time by analyzing satellite SAR imagery through a custom-trained Convolutional Neural Network.
- Integrated an interactive web dashboard where users upload radar scans; the backend pipeline pre-processes and classifies them, automatically triggering alerts to maritime and environmental authorities upon spill detection.

RELEVANT SKILLS

Languages: Python, Java, C, SQL

Frameworks & Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, TensorFlow, Keras

Tools: Git/GitHub, VS Code, Jupyter Notebook, Arduino IDE

Development Boards: Arduino UNO, Arduino Nano, ESP8266, ESP32, Raspberry Pi

Math Skills: Linear Algebra, Probability & Statistics, Calculus, Discrete Mathematics

CERTIFICATIONS

Machine Learning | Infosys Springboard | Certificate

Programming for Everybody (Getting Started with Python) | Coursera | Certificate

Fundamentals of Java Programming | Coursera | Certificate

HONORS AND AWARDS

Winner – Aetheron 2026 | Certificate

KITS Vinjanampadu, Guntur

National-Level Open Innovation Hackathon

2026

- Secured 1st place among all competing teams in an open innovation challenge focused on impactful technological solutions.

Winner – KK Wagh Project Expo 2026 | Certificate

KK Wagh Institute, Nashik, Maharashtra

2-Day National Working Model Contest

2026

- Ranked 1st among 150+ competing teams from across India in a rigorous two-day working model evaluation.

Winner – Gala'26 Project Expo | Certificate

KITS Akshar, Guntur

National-Level Innovation Project Expo

2026

- Achieved 1st place among 100+ teams in a national expo with a primary focus on innovation and real-world impact.

Winner – IEEE IES Day Idea Pitching Competition | Certificate

RVR & JC College of Engineering

Inter-College Idea Pitching Competition

2025

- Winner in an inter-college idea pitching competition organized by the IEEE Industrial Electronics Society chapter, securing top position among all participating teams.