Naga Charan Donga
Narsapur, Andhra Pradesh | +91 938176488 | charandonga9010@gmail.com | GitHub

Summary

Full Stack Developer skilled in MERN & Python stacks, with expertise in Machine Learning, Deep Learning, IoT, and Drone Technology. Experienced in developing web applications, AI chatbots, IoT systems, and cloud-based solutions. Successfully delivered exam portals, company websites, startup platforms, drones, and RFID-based attendance systems, collectively used by over 5000 users. Strong foundation in Large Language Models (LLMs), Transformer architectures, and fine-tuning techniques for real-world AI applications.

Education

Bachelor of Technology in Computer Science | 2022 – 2026
Swarnandhra College of Engineering & Technology, Narsapur | GPA: 7.25/10
Relevant Courses: Machine Learning, Deep Learning, Data Structures & Algorithms, Database Systems, Web Technologies, AI Tools, Python, Java, SQL

Skills

Programming: Python, JavaScript (ES6+), Java, C, C++, PHP, Arduino
Frontend: ReactJS, AngularJS, TailwindCSS, Bootstrap, HTML5, CSS3, Leaflet.js, tikinter, Pygame, Streamlit
Backend & Frameworks: Flask, Django, FastAPI, Node.js, Express.js, RESTful APIs, JWT Authentication, MVC Architecture
Databases: MongoDB, MongoDB Atlas, MySQL, PostgreSQL, Firebase, SQLite3
AI/ML & DL: LLMs, Transformer Architecture, Fine-tuning, HuggingFace, LangChain, Generative AI, ANN, CNN, RNN, GANs, NLP, TensorFlow, PyTorch, Keras, OpenCv, N8N
IoT & Embedded Systems: ESP32/ESP8266, RFID, GPS (Neo 6M), Sensors, PCB Design, Drone Technology
Cybersecurity: Web Security, HTTPS, Penetration Testing, Vulnerability Scanning, Secure APIs, Ethical Hacking
DevOps & Tools: Git, Docker, Linux, Postman, Jupyter Notebook, Google Colab, VS Code
Cloud & Deployment: AWS, Vercel, Render, Netlify, Railway

Internship Experience

Full Stack & AI/IoT Intern – IndoNalandaTech | January 2025 - july 2025
Designed and deployed the company website and a scalable exam portal using React, Flask, and MongoDB.
Developed a real-time drone monitoring system integrating IoT sensors, AI, and cloud for surveillance.
Built an AI-powered chatbot using LLMs and Transformer models, fine-tuned for companyspecific queries.
Implemented CI/CD pipelines and automated deployment, reducing downtime by 70%.
Cybersecurity Intern – Ediglobe | September 2025 –November 2025
Conducted penetration testing and vulnerability assessment of internal applications.
Implemented secure authentication, HTTPS, and API hardening techniques. Worked on encryption, malware analysis, and system hardening.

Projects

HM NutriBox Website (Startup Project)
Built a full-stack fruit delivery platform with monthly subscription plans.
Integrated user authentication, order tracking, and payment system.
Designed responsive UI using ReactJS and TailwindCSS.
Exam Portal – IndoNalandaTech
Developed a MERN stack portal for test conduction with admin/student dashboards.
Added secure login, question management, and result analysis features.

Improved onboarding speed and reduced system errors by 60%.

Drone Monitoring System – IndoNalandaTech

Created a drone surveillance system integrating IoT sensors and AI vision models.

Enabled real-time monitoring and cloud data storage.

Contributed to predictive analytics for drone flight safety.

AI Chatbot – IndoNalandaTech

Developed generative AI chatbot using LLMs, LangChain, and HuggingFace.

Fine-tuned with company-specific data for better query resolution.

Integrated with website for 24/7 automated support.

RFID-Based Student Attendance System

Built IoT attendance solution using RFID cards and ESP32.

Synced student data to cloud-based dashboard.

Reduced manual attendance processing time by 80%.

Smart Bus Management

Designed IoT solution combining GPS and RFID for bus/student tracking.

Built live map dashboard using Leaflet.js.

Enhanced safety and monitoring for school/college transport.

2D Shooting Game

Developed an interactive shooting game using Python Pygame.

Implemented scoring, animations, and game logic for user engagement.

Achievements

Selected in Smart India Hackathon (SIH) for AI-integrated drone solution (National Level).

Successfully repaired and re-engineered a non-working drone at college.

Coordinator for Technical Quiz Program conducted in college with 100+ participants. Served as **Web Master** for college technical events and online platforms.

Certifications

Eduskills - Google AI/ML Virtual Internship

Eduskills - Python Full Stack Developer

Interests

AI/ML Research, Drone Technology, LLM, IoT Innovations, Cybersecurity, Problem Solving