

# NAGA CHARAN DONGAI■

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## SUMMARY■

Aspiring AI/ML Developer and Full Stack Engineer with expertise in Python, LLMs, and the MERN stack. Experienced in developing web applications using React, Node.js, MongoDB, and PostgreSQL.



## SKILLS■

AI/ML & Data Science: Generative AI (LLMs, GPT, Llama), Transformer Architecture, Fine-tuning, LangChain, Retrieval-Augmented Generation.

Programming & Backend: Python (Expert), JavaScript (ES6+), Java, C++, Flask, Django, FastAPI, Node.js, RESTful APIs.

Frontend: ReactJS, TailwindCSS, Bootstrap, Streamlit, Leaflet.js.

Databases: MongoDB, PostgreSQL, MySQL, Firebase, Vector Databases (Pinecone, ChromaDB).

Tools & DevOps: Git, Docker, Linux, AWS, Vercel, CI/CD, Postman, Jupyter Notebooks.

IoT & Hardware: ESP32, Arduino, PCB Design, Drone Systems, Sensor Fusion.



## EXPERIENCE■

IndoNalandaTech | Full Stack & AI Intern | January 2025 – Present■

- Architected and deployed an enterprise-level AI Chatbot using LLMs and LangChain, implementing RAG to query proprietary knowledge bases.
- Developed a real-time Drone Monitoring System utilizing YOLO models for automated surveillance, improving anomaly detection accuracy by 30%.
- Built a scalable Exam Portal using the MERN stack and Flask, implementing secure JWT-based authentication and automated grading.
- Optimized deployment workflows via CI/CD pipelines on AWS, reducing system downtime by 70% and improving release velocity.



Ediglobe | Cybersecurity Intern | September 2024 – November 2024■

- Conducted vulnerability assessments and penetration testing on internal API endpoints to ensure data integrity.
- Implemented HTTPS, data encryption at rest, and system hardening protocols to protect sensitive user data across platforms.



## PROJECTS■

AI-Powered Generative Chatbot | LangChain, HuggingFace, Flask, React■

- Developed a RAG-based chatbot to handle complex documentation queries using Vector Databases (Pinecone).
- Performed extensive data cleaning, tokenization, and feature engineering on unstructured text data to optimize model response times.
- Integrated the model via a Flask REST API to a React frontend, providing seamless 24/7 automated user support.



IoT Drone Surveillance System | Python, OpenCV, YOLOv8■

- Integrated AI vision models with drone hardware for real-time object detection, tracking, and classification.
- Collected and preprocessed image datasets, performing data augmentation to achieve a 92% mAP (mean Average Precision).
- Selected as a National Finalist for the Smart India Hackathon (SIH) for this innovative AI-integrated solution.



HM NutriBox (Startup Project) | ReactJS, Node.js, MongoDB■

- Built a full-stack e-commerce platform for fruit subscriptions with integrated Stripe/Razorpay payment gateways.
- Engineered a responsive UI/UX and optimized backend queries to handle 500+ concurrent users during peak traffic.



## EDUCATION■

Swarnandhra College of Engineering & Technology | 2022 – 2026■

Bachelor of Technology in Computer Science | GPA: 7.25/10■

Relevant Coursework: Machine Learning, Deep Learning, Data Structures & Algorithms, DBMS, Web Development.



## ACHIEVEMENTS & CERTIFICATIONS■

- National Finalist: Smart India Hackathon (SIH) – AI-Integrated Drone Solution.
- Leadership: Technical Quiz Coordinator (100+ participants) & College Web Master.
- Certification: Google AI/ML Virtual Internship (Eduskills) – Model Training & Deployment.
- Certification: Python Full Stack Developer (Eduskills).