Katari Daivik Reddy

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LinkedIn | GitHub

SUMMARY

Electronics and Computer Engineering professional with proven experience building production AI and IoT systems across Y Combinator-backed startups and global enterprises. Specialized in edge AI, industrial IoT, and full-stack development with a track record of shipping impactful features—from deploying COVID-relief platforms to 15+ stores at age 15 to developing enterprise-grade edge intelligence at NTT DATA. Expertise in computer vision, LLM integration, and real-time embedded systems.

SKILLS

Programming Languages: Python, SQL, C, C++
Core Competencies: Edge Computing, Computer Vision, LLM Integration, Full-Stack Development, IoT Systems, API Design
Relevant Coursework: Artificial Intelligence, Machine Learning, Deep Learning, Data Structures, Database Management Systems, Data Analytics, Visualization
Tools & Technologies: Raspberry Pi, Docker, VMware, ROS, HuggingFace, Jupyter Notebook, Google Colab, Git
Libraries & Frameworks: NumPy, Pandas, Scikit-learn, TensorFlow, LangChain, OpenCV, YOLO, Flask
Industrial & IIoT: Litmus Edge, Ignition (SCADA), MQTT Explorer, Postman

EXPERIENCE

Edge AI Intern – NTT DATA Business Solutions Singapore PTE   Dec 2025 – Present

- Selected as an Edge AI Intern working on enterprise edge computing and industrial automation systems.

- Gained hands-on experience with Litmus Edge and Ignition (SCADA) for edge data ingestion, monitoring, and visualization.

- Worked with MQTT Explorer and Postman to analyze real-time device data and interact with API platforms.

- Deployed and tested edge environments using Docker and VMware, collaborating with a global NTT DATA team.

Software Engineering Intern – Rovr (YC-backed Silicon Valley Startup)   Aug 2025 – Dec 2025

- Interned at a Y Combinator–backed AI startup building AI-native delivery intelligence for enterprise implementations.

- Developed a core backend feature for AI-powered requirements capture and structured project artifact generation.

- Built and integrated LLM-driven workflows, vector search, and structured data pipelines to maintain long-term project context.

- Implemented backend services in Python using modern AI frameworks and internal APIs.

- Worked closely with founders and engineers to ship production-grade features used by real enterprise customers.

Software Developer – noQnow   Mar 2020 – Dec 2020
High School Student Developer (Age 15-16)

- Built a full-stack queue management platform deployed to 15+ grocery stores during COVID-19 pandemic as a self-taught developer.

- Developed backend services in Python and frontend components in JavaScript for time-slot booking and validation.

- Implemented SMS-based unique code generation for secure, contactless store entry verification.

- Designed REST APIs for retailer dashboards, booking management, and customer notifications.

- Reduced wait times and improved social-distancing compliance across deployed locations.

PROJECTS

OrbiX - Autonomous Delivery System
Jan 2025 – Present

Technologies: Python, OpenCV, ROS, Raspberry PI, YOLOv3

GitHub: github.com/daivik-22/Orbix

- Developed and constructed a two-wheel autonomous delivery robot with a payload capacity of 2 kg on Raspberry Pi 5, incorporating Dijkstra path planning to achieve 98% route efficiency.
- Implemented YOLOv3-based real-time object detection achieving 30 FPS with successful classification of 80 different object classes for navigation and obstacle identification.
- Applied non-max suppression to improve detection accuracy by 15% and reduce false positives by 20%.
- Programmed in Python for sensor fusion, RFID-gated delivery, and real-time obstacle avoidance, decreasing reaction time to less than 100 milliseconds and ensuring 100% successful RFID-gated deliveries.

DeepCode Reviewer - AI-Powered Code Analysis Tool
Oct 2024 – Dec 2024

Technologies: Python, Flask, Google Gemini API, HTML/CSS

GitHub: github.com/daivik-22/Deep-Code-Reviewer

- Built a web-based code review application leveraging Google's Gemini AI to provide intelligent feedback on code quality, performance, security, and best practices.
- Developed a Flask backend with RESTful API integration and responsive frontend with light/dark theme support.
- Implemented environment-based configuration for secure API key management and structured project architecture for scalability.

Parkinson's Disease Prediction
Sep 2024 – Nov 2024

Technologies: Python, NumPy, Pandas, Scikit-learn

GitHub: github.com/daivik-22/Parkinson-s-disease-prediction

- Developed a Logistic Regression model to predict Parkinson's disease from biomedical voice data, achieving a precision of 85% and an AUC-ROC score of 0.92 in the UCI ML dataset.
- Implemented data preprocessing techniques, including PCA, to reduce the set of characteristics from 22 to 10 variables, improving the efficiency of model training by 40%.

CERTIFICATIONS

- **AI Foundations Associate** – Oracle OCI
- **Litmus Edge Developer Certificate** – Litmus Academy
- **Ignition (SCADA) Certificate** - Inductive University
- **Generative AI Learning Path** – Google Cloud Platform
- **Data Analytics Essentials** – Cisco
- **Introduction to AI – Elements of AI** – Minnalearn - University of Helsinki
- **Python Essentials 1** – Cisco
- **DBMS Course - Master the Fundamentals and Advanced Concepts** – Scalar

EDUCATION

B. Tech in Electronics and Computer Engineering
Expected Graduation: May 2026

SRM Institute of Science & Technology, Kattankulathur
CGPA: 7.26 / 10

LEADERSHIP & INVOLVEMENT

Domain Head, Corporate & PR – Aakash Research Labs
Jan 2024 – May 2025

- Fostered partnerships with external stakeholders to support research initiatives.
- Promoted research through strategic public relations and communication efforts.
- Contributed to interdisciplinary projects utilizing technical and interpersonal skills.