LALITH KISHORE V S

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SUMMARY

Ambitious Machine Learning Engineer with experience in building and deploying AI models. Skilled in Python, TensorFlow, Flask, and data visualization. Passionate about solving real-world problems through ML solutions.

EXPERIENCE

- **AI/ML Drone Internship - CubeAI Solutions Tech Pvt Ltd** — Mar 2025 – Apr 2025

  - **Autonomous AI-Powered Drone System**: Developed an AI-powered drone system for real-time search and rescue operations in remote or disaster-affected areas. Integrated YOLOv8-based object detection to accurately identify missing persons through onboard camera feeds. Enabled autonomous navigation using GPS and computer vision to dynamically locate and approach individuals. Designed the system to capture and transmit real-time images and GPS coordinates to rescue teams. Focused on optimizing detection accuracy, response time, and reliability under challenging environmental conditions.

PROJECT EXPERIENCE

- **Predictive Maintenance for Fleet Management Using AI** — GitHub
  Technologies: Python, TensorFlow, LSTM

  - **Forecasting Model**: Built an LSTM model to forecast vehicle maintenance using sensor data to reduce breakdowns and improve fleet reliability.

- **Predicting Agricultural Commodity Prices** — GitHub
  Technologies: Python, LSTM, Data Visualization

  - **Price Prediction Platform**: Developed an LSTM model using weather and market data, and deployed a web platform to assist farmers with pricing decisions.

- **N8N Security & Intelligence Dashboard** — GitHub
  Technologies: n8n, OSINT, Google Search API, GitHub API, Automation

  - : Built an automated n8n-based OSINT scanning system that performs domain reconnaissance, detects exposed assets from Google & GitHub, classifies risks, and logs all intelligence into Google Sheets through a webhook-driven workflow.

CERTIFICATIONS AND ACHIEVEMENTS

- **Achievements**:

  - **National Level Hackathon 1.0 Champion**: Secured 1st prize and 30,000 cash award in a 24-hour coding competition, demonstrating expertise in coding and problem-solving.
  - **NAUONMESH 2.0 Hackathon**: Ranked among Top 15 performers and received Certificate of Participation, showcasing expertise in coding and problem-solving.
  - **National Level Winner Award − Annual Day Recognition**: Recognized at the national level during the Annual Day celebration for exceptional innovation and technical excellence, and awarded a cash prize of 3,000 for contributing impactful solutions in the field of technology.

- **Professional Certifications**: Certified in Data Analytics with Python, Python for Data Science (NPTEL), Generative AI Foundations, and Machine Learning for All.

TECHNICAL SKILLS

- **Programming Languages**: Python,Java

- **Backend**: Flask, MySQL

- **Tools**: TensorFlow, scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, N8n Automation (AI Agent), RAG, Seaborn

- **Platforms**: Google Cloud, VS Code, GitHub, Linux (Ubuntu)

- **Visualization**: MS Excel, Tableau, Power BI

- **Languages Known**: English, Tamil, Telugu - Fluent

EDUCATION

- **K.S. Rangasamy College of Technology, Tiruchengode** — Tamil Nadu, India
  B.E. in Artificial Intelligence and Machine Learning; CGPA:7.65 — *2022 – 2026*