Vaisakh M

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Summary

Data Science Intern skilled in Python, TensorFlow, PyTorch, and OpenCV. Experienced in machine learning, deep learning, NLP, computer vision, and large language models (LLMs). Proficient in predictive modeling, AI workflow automation (n8n), and real-world data-driven solutions.

Education

Bachelors of Computer Science, Sri Krishna Arts and Science College, Coimbatore 2021 - 2024
Relevant Coursework: Machine Learning, Deep Learning, Database Management, Statistical Analysis

Skills

- **Languages:** Python, MySQL, R Programming, JavaScript
- **AI/ML:** Supervised Learning, Unsupervised Learning, CNN, RNN, Transfer Learning, Optimization, Explainable AI (XAI), Reinforcement Learning (Basics)
- **Computer Vision:** Object Detection, Ingredient Detection, Face Recognition, Gaze Tracking
- **Frameworks:** TensorFlow, PyTorch, Hugging Face Transformers, spaCy, OpenCV, Flask, React
- **NLP:** Text Processing, Speech-to-Text (STT), Large Language Model (LLM) Chatbots
- **Automation:** n8n Workflow Automation, Cloud-based AI Automation
- **Cloud Skills:** Google Cloud, DevOps (Basics), CI/CD, Cloud Deployment, Cloud Storage and Compute

Work Experience

Data Science Associate Intern, Ladder7 Nextstep Solutions LLP Present

- Contributing to AI/ML model development for automation, predictive analytics, and business insights.
- Supporting cloud-based deployments and workflow automation for client projects.

Data Science Intern, IDATALYTICS, Kochi Oct 2024–Feb 2025

- Optimized ML models for real-time performance and scalability.
- Built AI-based facial recognition and gaze tracking systems using Flask and cloud.

Projects

Ingredient Detection and Dish Recommendation System — Source Code

- Built YOLOv8 + OpenCV pipeline to detect ingredients from food images.
- Implemented Flask backend with recipe recommendation logic.
- Tech Stack: Python, Flask, YOLOv8 (PyTorch), OpenCV, NumPy, Pandas, React, CSS

AI-Powered Interview Proctoring System — Source Code

- Designed CNN-based face recognition and gaze tracking for candidate monitoring.
- Integrated sentiment and anomaly detection from voice using TensorFlow.
- Tech Stack: Python, OpenCV, TensorFlow, Scikit-learn, Pandas, MySQL

Certifications

- **Coursera:** IBM AI Foundation for Business, EDA for Machine Learning (IBM), Python for Data Analysis (Pandas, NumPy), Data Visualization (Matplotlib, Seaborn), Google Advanced Data Analysis (In Progress)
- **Oracle Certification:** Machine Learning on Oracle Cloud
- **Spoken Tutorial IIT Bombay:** R Programming, Python Language