

Delight Cherubino I

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PROFESSIONAL SUMMARY

AI & Data Science practitioner specializing in LLM fine-tuning, open-source model training, and GenAI system engineering. Experienced in dataset curation, LoRA/PEFT parameter-efficient fine-tuning, RAG architecture design, and quantization (GGUF) for low-latency edge deployment. Creator of Code2Day—a high-concurrency learning platform acquired by QuBrain.ai—with proven expertise in translating fine-tuned AI architectures into scalable enterprise solutions, LMS tools, and technical documentation.

PROFESSIONAL EXPERIENCE

ML Intern — Cement Bag Counting System

Jan 2025 – Dec 2025

The Ramco Cements Limited

Ariyalur, Tamil Nadu

- Engineered, trained, and optimized a custom YOLOv8 computer vision model (97.5% accuracy), handling end-to-end dataset annotation, augmentation, and hyperparameter tuning.
- Optimized model inference using ONNX Runtime for real-time edge processing and authored comprehensive setup documentation for non-technical factory personnel.
- Built a PyQt5 inventory management dashboard and presented model evaluation metrics, loss curves, and ROI findings directly to plant leadership.

AI & ML Intern — People Counting & Security System

Apr 2024 – Jul 2024

The Ramco Cements Limited

Ariyalur, Tamil Nadu

- Trained and deployed object detection models on multi-camera RTSP video feeds utilizing Python multithreading for concurrent batch inference.
- Created technical runbooks, model deployment guides, and learning artifacts to facilitate structured knowledge transfer across plant engineering operations.

Data Analyst

Nov 2023 – Dec 2023

Igress Solutions

Remote

- Designed Power BI sales analytics dashboards and engineered automated Python ETL pipelines for data cleaning and feature transformation.
- Received Spot and Impact Awards within month one for data presentation clarity, precision ETL modeling, and execution.

PROJECTS

Code2Day — code2day.ramcoad.com • github.com/Cherubino0/code2day

Jan 2026 – Jul 2026

React, Django, PostgreSQL, Redis, Docker, Ollama, PyTorch

- Built solo → 56+ deployments → 550+ active student and staff users → acquired by QuBrain.ai.
- Integrated and fine-tuned open-source **Llama 3 8B** via Ollama/PyTorch for automated domain-specific question generation with structured JSON validation.
- Architected Docker-isolated code execution sandboxes supporting 6 languages for 320+ concurrent users with custom prompt engineering guardrails.
- Authored LMS deployment runbooks, model evaluation reports, anti-cheat detection algorithms, and SME handoff documentation.

Helmet & Vest Detection System — github.com/Cherubino0/ramco-cements

Dec 2024

YOLOv8, PyQt5, ESP8266, OpenCV

- Trained custom YOLOv8 safety compliance models; authored job aids and trained factory personnel on live inference and automated alert monitoring.

EDUCATION

Bachelor of Technology in Artificial Intelligence & Data Science

2023 – 2027

Ramco Institute of Technology

Rajapalayam, Tamil Nadu

EXPERT-LEVEL SKILLS

LLM Engineering & GenAI: Fine-Tuning (LoRA, PEFT, SFT), Quantization (GGUF, AWQ), RAG, Prompt Engineering, Ollama, Llama 3, AWS Bedrock, Vector DBs

Machine Learning & CV: Model Training, Dataset Annotation/Augmentation, YOLOv8, PyTorch, TensorFlow, ONNX Runtime, OpenCV, Scikit-learn

Full-Stack & DevOps: Python, SQL, React, Django, FastAPI, PostgreSQL, Redis, Docker, CI/CD, Nginx, Power BI

L&D & Technical Writing: SME Coordination, E-learning Modules, Job Aids, LMS Integration, Model Documentation

ACHIEVEMENTS

- 1st Prize — National Paper Presentation**, Francis Xavier Eng. College: AI research presentation on deep learning for cancer differentiation.
- Best Team Award (Lead) — National AI Innovate Hackathon:** Led production LLM solution design, prompt engineering, and model pitch.
- Finalist — HACKODESY 2k25**, Kalasalingam University: Reached finals in national-level AI competition.