

DELIGHT CHERUBINO I

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SUMMARY

Dedicated BTech student in Artificial Intelligence and Data Science at Ramco Institute of Technology (2023–2027), with keen interest in machine learning, gen-ai, llm, predictive analysis, and data visualization. Experienced in Python and BI tools, I implemented an AI-based real-time monitoring system based on computer vision and machine learning as an AI Engineer at Ramco Cements (Apr–Jul 2024), optimizing deep learning models for high accuracy and improving security. As a Data Analyst at Igress Solutions (Nov–Dec 2023), I utilized Python scripting to provide effective insights, receiving a Spot Award and Impact Award. Proficient in creativity, leadership, and teamwork, I look forward to further developing my machine learning skills and leading innovative AI solutions in fast-paced tech environments.

INTERNSHIP EXPERIENCE

Data Analyst, Data analyst, Igress solutions(Nov 2023 - Dec 2023)

- Developed a user-friendly UI to enhance data visualization, improving accessibility and interpretation of analytical insights.
- Designed and optimized data cleaning processes, ensuring high-quality datasets for analysis and predictive modeling.
- Developed interactive data visualization dashboards using Power BI for AWS SALES DATA, enhancing UI accessibility and insight delivery for stakeholders.

AI & ML Intern , The Ramco Cements Limited(Apr 2024 — Jul 2024- Ariyalur)

- Contributed to developing an AI system for real-time monitoring and counting of people entering/exiting company premises, utilizing YOLO architecture, computer vision, and networking techniques as a team.
- Supported model training and fine-tuning of deep learning models, collaborating on tracking algorithms to enhance accuracy in video feed analysis.
- Helped develop a user-friendly UI and interactive dashboards using PyQt5 Python framework, enabling real-time monitoring and reporting from multiple camera feeds.
- Contributed to optimizing system performance with multitasking and threading techniques, ensuring efficient processing of video streams on a live server, enhancing company security and operational efficiency.

ML Intern , The Ramco Cements Limited

- Contributed to developing an AI system for real-time cement bag counting using YOLOv8 architecture, machine learning, and computer vision, deployed in an industrial setting.
- Supported data training and model development, collaborating on training YOLOv8 models and cleaning datasets to ensure accurate bag detection.

- Assisted in creating a user-friendly UI and dashboards using PyQt5, enabling real-time monitoring and control of video feeds.
 - Contributed to deploying the system as an executable (.exe) application, enhancing usability and improving inventory management and operational efficiency in the industry
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EDUCATION

B. Tech - Artificial Intelligence & Data Science

School Education

The High Range school, Higher secondary - Jun 2022 - Jul 2024 - Munnar

TECHNICAL SKILLS

- **Machine Learning & Deep Learning:** TensorFlow, PyTorch, Scikit-learn, ONNX Runtime
 - **AI & NLP:** open sourced Llm, RAG (Retrieval-Augmented Generation), ChromaDB
 - **Computer Vision:** YOLO (object detection), Tesseract OCR, OpenCV
 - **Development Frameworks:** Flask, Django, Electron, React, Three.js
 - **Databases & Storage:** ChromaDB, SQL, NoSQL, google cloud
 - **Cloud & Edge AI:** Azure AI, NVIDIA DeepStream SDK
 - **Software & Tools:** Git, API Integration, Web Scraping
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PROJECTS

- **Medical and Tax Chatbot:** Collaborated on a chatbot using **NLP** and **web scraping** for medical and tax queries with a user-friendly UI.
 - **Helmet and Vest Detection, Ramco Cements:** Helped develop a **YOLOv8**-based AI system with **IoT (ESP8266)** and **PyQt5** UI for real-time safety monitoring.
 - **Resume Analyzer:** Contributed to an **LLM** and **NLP**-based resume ranking system with a visualization UI.
 - **Auto Document Extractor:** Assisted in building a **Paddle OCR**-based document extractor with **Python** for accurate text extraction.
 - **QuBrain Web Development:** Supported web app development using **Django** and **Python** for responsive functionality.
 - **Water Analysis, Ramco Cements:** Helped create a **Python**-based water analysis and raw material prediction system with **PyQt5** UI for live integration.
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CERTIFICATIONS

- Introduction to Generative AI – GOOGLE CLOUD

- Data Analytics Essentials – CISCO
- Python Essentials 1 - CISCO
- Fundamentals of Facial Recognition – MICROSOFT
- Introduction to machine learning – MICROSOFT
- Complete Web & Mobile Designer: UI/UX, Figma - UDEMY

ACHIEVEMENTS & HACKATHONS

- 1st Prize – National Paper Presentation Secured 1st place in the National Paper Presentation held at Francis Xavier Engineering College, Tirunelveli. Presented innovative research on [DIFFERENTIATION OF CANCER USING AI], showcasing technical expertise and problem-solving skills.
- Finalist in HACKODESY 2k25 held at KALASALINGAM UNIVERSITY, KRISHNANKOVIL
- Won the Best Team Award as a Team Lead at the National AI Innovate Hackathon (Thiran) held at Shri Eashwar College of Engineering, Coimbatore, Developed a cutting-edge AI and IIm based solution tackling real-world challenges, demonstrating leadership, teamwork, and innovation.

Declaration

I hereby declare that all information provided in this resume, including details of my education, employment, and projects involving YOLOv8, NLP, Paddle OCR, Django, and IoT, is true and accurate to the best of my knowledge.

Place: Munnar

Date: May 06, 2025

Delight Cherubino