

Muralidhar Kolimali

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GitHub: github.com/MuraliDhar-731/ | Portfolio: muralidhar-731.github.io/Portfolio_Web

Professional Summary

- Data Science graduate student with hands-on experience in developing AI and ML solutions.
- Experienced in computer vision applications using YOLOv3.
- Skilled in LLM-powered chatbot development and prompt engineering.
- Proficient in Python, SQL, and backend development.
- Strong experience in model tuning, data pipelines, and process automation for AI-driven applications.

Skills & Certifications

- Programming: Python, SQL, PL/SQL, Pro*C
- Machine Learning & AI: YOLOv3, Scikit-learn, TensorFlow (basics), Q-Learning
- Data Science & Tools: Pandas, NumPy, OpenCV
- Backend & Automation: Shell scripting, Pro*C, UNIX-based process automation
- Certifications: NVIDIA LLM & Chatbot Workshop, Prompt Engineering

Professional Experience

Software Engineer – **Virtusa Consulting Services (Client: Citi India)** | Chennai, India |
June 2022 – July 2024

- Migrated retail banking datasets from Citi to Axis Bank systems with **data integrity** validation.
- Developed and optimized **PL/SQL** queries using indexing and hints to improve execution speed.
- Automated backend processes using **Pro*C** and Shell scripting, reducing manual operations.
- Supported **procedural testing** and UNIX-based operational monitoring for production stability.
- Worked extensively with **SQL** features including GROUP functions, ANALYTICAL functions, single-row functions, and SET operators to streamline data processing and reporting.

Projects

Vehicle Detection with YOLOv3

- Developed a traffic monitoring pipeline to detect and classify vehicles from video frames.
- Implemented frame-based object detection and vehicle type categorization using YOLOv3 and OpenCV.

MindMaze – Intelligent Puzzle Game

- Created a daily adaptive puzzle game with ML-driven difficulty adjustments.
- Integrated real-time hint system powered by Q-Learning, enhancing user engagement.

Workshops & Certifications

- NVIDIA LLM & Chatbot Development Workshop (2025) - Hands-on training in prompt engineering, LLM fine-tuning, and chatbot deployment.
- Extended my knowledge by attending a follow-up LLM workshop hosted by the university, gaining deeper insights into advanced LLM tuning and deployment practices.

Education

- Master's in Data Science – University of New Haven (GPA: 3.5)
- Bachelor's in Electronics and Communication Engineering – Raghu Institute of Technology (GPA: 8.32)