Mohammed Safwan M

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SUMMARY

Proficient in Python, SQL, and core AI/ML domains including Machine Learning, Deep Learning, NLP, and Computer Vision. Proficient in Git/GitHub with hands-on project experience, eager to learn and contribute to impactful, sustainable innovations.

EDUCATION

Bachelor of Technology in Artificial Intelligence and Data Science

Sri Ramakrishna Engineering College • Coimbatore • 2025

Diploma in Mechanical Engineering

Nachimuthu Polytechnic College • Pollachi • 2022

SSLC

Shenbagam Matriculation Higher Secondary School • Pollachi • 2019

INTERNSHIP

Machine Learning Intern

Daily Day Solutions Pvt. Ltd. **June 2024 - July 2024, Coimbatore**

- Trained and fine-tuned object detection models leveraging YOLOv8 with Roboflow datasets for automated identification of potholes and speedbreakers from roadway imagery.
- Developed a real-time computer vision pipeline using Python and OpenCV to detect road anomalies.
- Prepared, annotated, and augmented datasets in Roboflow to enhance model robustness and performance.

PROJECT

Noctivision - AI Based Flare removal and low-light vision enhancement (05/2025)

- Designed a **deep learning–based computer vision model** to enhance **low-light images** by removing lens flares and restoring scene clarity.
- Implemented the **Uformer architecture with depth estimation** using **Python and PyTorch** for advanced **image processing and feature recovery**.
- Enhanced image quality using **dynamic exposure correction** for AI vision and **night-time surveillance**.

Water Management System using IoT and Cloud (05/2024)

- Developed an **IoT solution** using **water flow sensors** to detect and monitor water flow in pipelines, ensuring efficient resource management.
- Integrated **cloud computing** for secure storage of user details and real-time access.
- Implemented **automated notifications and call alerts** to users in rural areas, enhancing water conservation and sustainability.

Bike Ignition Cut-off using Helmet Detection (01/2024)

- Built an **AI-powered safety system** using a **Raspberry Pi camera module** and **YOLOv5 object detection** to identify helmet usage in real time.
- Automated the **ignition cut-off mechanism** when no helmet is detected, enhancing road safety and preventing accidents.
- Applied **computer vision, deep learning, and IoT integration** for practical deployment in smart transportation systems.

Fabrication Of LPG Refrigeration System (04/2022)

- Designed and fabricated a **refrigeration system powered by LPG**, eliminating the need for electricity.
- Utilized **LPG as a dual-purpose energy source** for both cooking and cooling applications.
- Developed an **energy-efficient and sustainable solution** for food preservation in off-grid and rural areas.

SKILLS

Python, SQL, Machine Learning, Deep Learning, Data Visualization, Computer Vision, Artificial Intelligence, Data Analytics, Git/Github

CERTIFICATIONS

Certified in SQL Complete Bootcamp: From Basics to Advanced

Udemy