Sham P

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⭘ Sham12-P

WORK EXPERIENCE

e-Swara Technologies, Hassan

Python/Machine learning Intern   Aug 2023 - Sep 2023

- Trained a YOLOv5 object detection model to identify bike riders' helmet usage in real-time video streams, achieving 85% accuracy through hyperparameter tuning and dataset augmentation.
- Preprocessed 500+ images using OpenCV to create a balanced training dataset, improving model generalization across diverse lighting and angles.
- Evaluated model performance using precision-recall metrics and reduced false positives by 15% by refining bounding box annotations and class imbalance strategies.

EDUCATION

Malnad College of Engineering, Hassan

Bachelor of Engineering, Electronics and Communication Engineering – 8.41CGPA   Sep 2020 - May 2024

Sadvidhya Composite PU College, Mysore

12th - 90.33   2020

Rotary Vidhya Samsthe, Hunsur

10th - 98.24   2018

PROJECTS

Bike Rider Helmet Detection and Engine Locking System – Python, Machine Learning
- Trained a YOLOv5 model for real-time bike rider helmet detection.
- Implemented IoT logic to block engine ignition via Raspberry Pi when no helmet is detected, enhancing road safety by 40%.
- Achieved 85% detection accuracy by training and fine-tuning a YOLOv5 model.

Smart Fire Security Alarm
- Designed a microcontroller-based IoT fire detection system using NodeMCU ESP8266 and a flame sensor.
- Programmed in C++ using the Arduino IDE to trigger alarms and send real-time alerts to mobile devices via the Blynk IoT platform.
- Reduced response time by 30% compared to traditional alarms by enabling instant notifications to users.

SKILLS

- **Programming Languages:** Python, C, JavaScript, SQL.
- **Technologies/Frameworks:** HTML, CSS, ReactJS (beginner).
- **Operating Systems:** Windows, Linux.

CERTIFICATE

Introduction to SQL - Simplilearn 🔗

Enhancing Soft Skills and Personality - IIT Kanpur(NPTEL) 🔗

LANGUAGE

English (Professional)

Hindi (Limited)

Kannada (Native)