Karthikeyan K

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EDUCATION

- **BE** Electronics and Communication Engineering, Hindusthan Institute of Technology — 2021 – present | Current
  CGPA: 8.3
- **HSC** - Our Lady of Lourdes Matric Hr Sec School, Pollachi, Coimbatore — 2019 – 2021 | Pollachi
  Scored 85%
- **SSLC** - Our Lady of Lourdes Matric Hr Sec School, Pollachi, Coimbatore — 2018 – 2019 | Pollachi
  Scored 78.4%

TECHNICAL SKILLS

Programming Languages: Python, Java, c, c++

Database Management: MySQL

Web Development: HTML, CSS, Javascript

Developer Tools: VS Code, Github

Frameworks: UI | UX

Core: Networking

MSOffice: Word, Excel, PowerPoint

PROFESSIONAL EXPERIENCE

Internship

DSIB Tech   **Jan 2023**
 Embedded System Design training

Emglitz Technologies   **Oct 2023**
 Internet of Things

Accent Techno Soft   **Mar 2022**
 Python with Machine Learning

PROJECTS

Face Recognition Attendance System   **Jan 2024 - Mar 2024**

Objective: Perform real-time face recognition using a webcam to mark attendance based on known faces.
Components: Uses cv2 and face-recognition libraries to capture webcam frames, detect faces, compare them against stored encodings, and record attendance in a CSV file.
Workflow: Loads known faces from a directory, initializes webcam feed, detects and recognizes faces in each frame, records attendance upon recognition, and displays results in real-time.

Traffic Light Negotiation System   **Aug 2023 - Sep 2023**

Purpose: This program uses HSV color thresholding to detect and identify traffic light colors in a video feed.
Components: Utilizes OpenCV to read video frames, convert them to HSV color space, apply color masks, find contours, and determine the predominant color based on contour area.
Functionality: Analyzes the largest contour area among green, yellow, and red masks to infer the current traffic light status.
Output: Displays real-time traffic light status overlaid on the video feed, indicating the recognized color with corresponding text in the frame**.**

CERTIFICATES

- C, C++, Java, HTML in CSC Institute, Pollachi
- Programming using Java at Infosys
- Basics of Python in HackerRank and Accenture
- IP Awareness in NIPAM
- Basics of Microsoft Excel in coursera

ACHIEVEMENTS

- NSS Volunteer **:** Actively participated volunteer in volunteering to social activity like blood donation, adult education, cleaning camps etc.
- participated in basic life support and recovery position and recorded as an "world record event under Asia book of records" held at Tamil Nadu agricultural university,coimbatore-2022
- participated in national level science and technology exhibition and technical symposium held at Hindusthan polytechnic college Coimbatore-2021