Hayakreevan J K

9894623269 | jkhayakreevan2004.@gmail.com | linkedin | github | Coding Profile

Education

Vellore Institute Of Technology — Chennai, TamilNadu
Bachelor of Technology — *Expected 2025*
- CGPA: 9.22

Mahatma School Montessori (CBSE) — Madurai, TamilNadu
Computer Science
- 10th Grade: 85.8 / 2019
- 12th Grade: 86.4 / 2021

Experience

Assistant Junior Engineer — September 2023 - October 2023
Huegli Tech Engineering Pvt Ltd., — *Bangalore, Karnataka*
- PCB Design Basics - Routing, Components Placements, Tracing, Fabrication
- Firmware programming using PIC (PIC16F877A) microcontroller basics
- Electronica India 2023 - Bangalore International Centre (BIEC)

Online Internship — Jun 2023 - July 2023
online mode
- Applying machine learning to programming basics involves defining a task (like code prediction or language classification), gathering and preprocessing relevant data (code snippets), selecting and training a suitable model (like RNNs or SVMs), and evaluating its performance before deployment.

Technical Skills

- Java Data Structure Algorithms programming proficiency, Python Basic Programming
- HTML, CSS, JS Basics, jQuery, EJS, API, SQL, Git, Github
- C and Embedded C Programming
- Basic Computer Network and Communications
- Microprocessor and Microcontroller (PIC)

Projects

Streamlining Data Management for Garment Manufacturing | *Embedded System Interfacing Full Stack*
- Data Acquisition via serial number and processing it using webserver, which improved manufacturing efficiency by reducing tracking errors by 60%
- A web server is developed using ESP32 and launched. The website is designed and operates using HTML, CSS, and JavaScript.Python is used to process and manipulate data for storage in a database. The ESP32 is programmed using C++ (Embedded Programming).
- Each garment's final output includes a database tracking employee involvement, facilitated by a final serial number.

Home Automation Using IOT And Computer Vision | *Python and Embedded System*
- Data Acquisition via a camera and processing it using Python with computer vision methods.
- Utilizing an IoT MQTT broker to trigger actuators by interfacing Python with Node-RED.
- By integrating Python, IoT MQTT, and computer vision, the system significantly enhanced the automation of various home functions, leading to increased efficiency and convenience.

Soft Skills

Languages: Tamil, English
Communication: Proficient and Fluent
Teamwork: Collaborative synergy
Leadership: Poor dictator
Creativity: Innovative thinking
Time Management: Efficient scheduling