S HARI KRISHNA

Machine Learning & IoT Systems Developer (Student)
Chennai — 8903397574 — harikrishnx07@gmail.com —

EDUCATION

Shiv Nadar University, Chennai
B.Tech in Computer Science and Engineering (IoT)
2024 – Present GPA: 8.5 / 10

PROJECTS

Web-Based Attention Monitoring System — Real-time ML Distraction Detection

- Developed a browser-based attention tracking system using MediaPipe to extract behavioral features and perform real-time distraction prediction via a Flask API.
- Designed a responsive UI with alerts, sound feedback, and analytics to visualize focus state and attention events.

Tech: HTML, CSS, JavaScript, MediaPipe, Python, Scikit-learn,

University Campus Map Management System — Full-stack GIS Platform

- Built an interactive campus map with searchable buildings, geolocation, real-time walking routes, secure login, CRUD management, and responsive UI.
- Designed a normalized MySQL schema for 43+ buildings and optimized performance using caching, indexing, and debounced search.

Tech: HTML, CSS, JavaScript, Leaflet.js, Node.js, MySQL, Flask

Automatic Smart Pill Dispenser — IoT-based Medication Reminder System

- Designed an Arduino-based pill dispenser with scheduled alerts, automated servo dispensing, LEDs, buzzers, and user acknowledgment for reliable medication adherence.

Tech: Arduino Uno/R4, Embedded C, Python, Serial Communication, LCD, Servo Motor, LED, Buzzer

AI Fitness Planner — Personalized Fitness and Nutrition Advisor

- Developed a web-based AI system that analyzes biometric and lifestyle data to generate personalized workout and nutrition plans using ML-driven clustering and prediction via Flask.

Tech: HTML, CSS, Tailwind, JavaScript, Python, Flask, Machine Learning

SKILLS

Programming: C, C++, Python, Java, SQL
Machine Learning & Data: OpenCV, MediaPipe, Model Training, Accuracy Evaluation
IoT & Embedded: Arduino, Sensors, Serial Communication, Hardware–Software Integration
Web & Applications: HTML, CSS, JavaScript, Flask
Tools: Arduino IDE, VS Code, GitHub, Jupyter / Colab
Productivity: Google Workspace