

S HARI KRISHNA

Machine Learning & IoT Systems Developer
(Student)

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📍 Chennai

EDUCATION

SHIV NADAR UNIVERSITY-B.Tech in Computer Science and Engineering (IOT)

2024 - current,GPA-8.5/10

PROJECTS

WEB-BASED ATTENTION MONITORING SYSTEM-Real-time ML distraction detection

- Developed a browser-based attention tracker using Mediapipe with behavioral features and real-time ML distraction prediction deployed through a Flask API.
- Designed a responsive UI with alerts, sound feedback, and analytics to visualize focus state and user events in real time.
- Tech Used: HTML, CSS, JavaScript, Mediapipe, Python, Scikit-learn, Flask.

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 glassmorphic UI with clustered markers, popups, and QR sharing.
- Designed a normalized MySQL schema for 43+ buildings and optimized performance using caching, indexing, and debounced search for smoother spatial visualization.
- Tech Used: HTML, CSS, JavaScript, Leaflet.js, Node.js, MySQL, Flask.

AUTOMATIC SMART PILL DISPENSER-IoT-based medication reminder system

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

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

AI FITNESS PLANNER-Personalized fitness and nutrition advisor

- Developed a web-based AI fitness planner that analyzes biometric and lifestyle data to generate personalized workout and nutrition plans using ML-driven clustering and prediction through a Flask
- Tech Used: HTML, CSS, Tailwind, JavaScript, Python, Flask, Machine Learning.

SKILLS

- Programming C, C++,Python, Java, SQL
- ML & Data OpenCV , MediaPipe , Model Training, Accuracy Evaluation
- IoT & Embedded Arduino, Sensors, Serial Communication, Hardware-Software Automation
- Tools: Arduino IDE, VS Code, GitHub, Jupyter/Colab
- Web & Apps HTML, CSS, JavaScript, Flask
- Google Workspace