

# Hritik Dua

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## Summary

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B.Tech Computer Science student with a strong interest in software development, AI, IoT, and blockchain. Hands-on experience in building real-world systems including AI-based health kiosks, steganalysis tools, biometric attendance systems, and blockchain voting platforms.

## Skills

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**Programming:** Python, Java, C, JavaScript

**Web Development:** HTML, CSS, JavaScript, Node.js, Express.js

**IoT & Embedded:** ESP8266, ESP32, Raspberry Pi, Arduino

**Database & Cloud:** Firebase, MySQL, MongoDB, Google Sheets API

**AI / ML:** OpenCV (Basic), TensorFlow (Basic)

## Projects

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### Steganographic Content Detector

Aug 2025 – present

The Steganalysis Forensics Platform is a deep learning-based system that identifies hidden data in images by analyzing statistical noise residuals using SRM filters and CNNs. It features a decoupled Flask backend and a modern web frontend to provide forensic analysts with real-time likelihood scores and threat classifications.

- ML model is being trained on over 300,000+ images

### AI-Based Smart Health Kiosk for Rural Areas

December 2024

An AI-powered health kiosk for rural areas that measures basic vitals such as temperature, SpO<sub>2</sub>, and heart rate using a Raspberry Pi. The kiosk guides users via a 20×4 LCD, uploads patient data to a Supabase database, and connects doctors through a web portal. Doctors review vitals, prescribe medicines, and pharmacies access prescriptions through a separate portal, enabling quick and remote healthcare access.

- Built using Raspberry Pi 5
- Includes standby and offline modes

### Cloud-Based Smart Attendance System

The Cloud-Based Smart Attendance System is an IoT-based solution that automates attendance using facial recognition and fingerprint authentication. It uses Raspberry Pi and ESP8266 to capture biometric data and securely stores attendance records on the cloud for real-time access and management.

- Inbuilt standby and offline record-keeping feature

## Extracurricular Activities

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- Active Web Developer at [Vibezarurihai](#)

## Hackathons & Achievements

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- Participated in over 20+ hackathons
- Completed a 24-hour hackathon at IPEC and built a blockchain invoicing system
- Participated in AAVISHKAR Season 3 virtual hackathon and built a learning assistant for rural areas – [DigitalSaathi](#)

## Education

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Dr. A.P.J. Abdul Kalam Technical University, B.Tech in Computer Science

Aug 2023 – Aug 2027