Hardik .K. Singh

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Education

Vellore Institute of Technology,
B.Tech in Computer Science and Engineering Specialization in Health Informatics

Oct 2022 – July 2026
GPA: 7.14/10.0

Skills

Languages: Python, SQL, Java, HTML, CSS, JavaScript
Frameworks Libraries: Pandas, NumPy, React, Node.js, Express.js
Databases: MySQL, MongoDB
Tools Platforms: Power BI, Tableau, Git, GitHub, VS Code, Arduino.

Projects

Kidney Pathology Detection   July 2024 – Oct2025
Python, PyTorch, OpenCV, ONNX

- Developed a deep learning system to classify kidney CT scans into 4 pathology categories, achieving over 99.6% accuracy using an optimized neural network architecture.
- Engineered a deployment-ready pipeline with model pruning and ONNX export, reducing inference latency for scalable, low-latency medical image analysis.

Solar-Powered Agricultural IoT Solution   Oct 2023 – Mar 2024
Arduino, C++

- Programmed Arduino sensors to monitor 10+ environmental parameters, achieving 95% data accuracy across 24/7 operations.
- Automated irrigation systems, reducing manual intervention by 70% and increasing water usage efficiency by 35% in pilot testing.

Sign Language Translation System   Apr 2022 – Sep 2023
JavaScript, MySQL Learning

- Developed a real-time sign language translation Chrome extension, accurately processing 1000+ gestures with 88% accuracy.
- Optimized MySQL database queries, improving data retrieval speed by 50% for a database of 500+ user interactions.

Certifications

Blockchain Development Program | IBM   Oct 2025
MERN Full Stack Development Certification | Ethnus   Sep 2025

AWARDS RECOGNITION

Health Hackathon Participant | Johns Hopkins University, USA   Feb 2023

- Selected among top participants to develop AI-powered healthcare solutions addressing real-world medical.

Second Position, IEEE Q-RiOSITY Competition | VIT Bhopal   July 2022

- Secured 2nd rank among 100+ participants demonstrating engineering knowledge and rapid problem-solving.