



Hemant Singh

B.Tech IT Student | Python & AI/ML Enthusiast | Cybersecurity Enthusiast

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OBJECTIVE

B.Tech IT student with hands-on experience in cybersecurity, IoT, and Python development. Seeking roles in penetration testing, cloud security, and AI/ML to solve real-world challenges.

EDUCATION

Bachelor of Technology – Information Technology

Bharati Vidyapeeth, Mumbai | Aug 2024 – 2027 | Grade: A

- Active in Cybersecurity & Ethical Hacking Club – CTFs, system security, vulnerability assessments

Diploma – Computer and Information Sciences

Saraswati College of Engineering, Navi Mumbai | 2021 – May 2024 | Grade: A+

- President, IT Branch Student Association – Organized and spearheaded events, workshops, hackathons & seminars

INTERNSHIP EXPERIENCE

IoT Intern – Livewire

CADD Centre Training Services Pvt. Ltd. | Aug 2023 – Mar 2024 (8 months)

- Gained practical exposure to IoT and hardware–software interfacing
- Built High Power Device Controller using Cloud and Raspberry Pi

Cybersecurity Intern

Tuterl Infosec Pvt. Ltd. | Aug 2023 – Feb 2024 (7 months)

- Trained in Cloud Security, DFIR, Penetration Testing, and Blue Teaming

Penetration Testing Intern

HackersForYou | Sep 2023 – Oct 2023 (2 months)

- Learned pen testing fundamentals and web application vulnerability assessment

SKILLS

Languages	Python, HTML, C (basic)
Cybersecurity	Penetration Testing, DFIR, Cloud Security, Blue Teaming, Vulnerability Assessment
IoT & HW	Raspberry Pi, Cloud device control, hardware–software interfacing
AI / ML	NumPy, Pandas, Scikit-learn (basics)
Tools	Linux, Kali Linux, Git, GitHub
Soft Skills	Leadership, Event Coordination, Peer Mentoring, Collaboration

PROJECTS

Honeypot Virtualization System

Emulates a virtual file system & shell environment, logging and monitoring attacker interactions.

Python, Flask

Flask-Based Load Balancer

Distributes client requests across multiple backend servers simulating real-world traffic distribution.

Python, Flask

Computer Vision RPS Game

Real-time Rock-Paper-Scissors using hand gesture recognition via MediaPipe and OpenCV.

Python, OpenCV, MediaPipe

Web-OLAP – Business Growth Analyzer

OLAP web app for Excel/CSV analytics with drill-down, roll-up, slice & dice operations.

Python, Flask, HTML

Python Automation Suite

Collection of automation scripts demonstrating practical Python scripting and real-world use cases.

Python

Hemant Portfolio Website

Personal portfolio website built to showcase my AI/ML, DevOps, and Cybersecurity projects. Live at www.bit-hemant.me

HTML

CERTIFICATIONS

HTML Training – Spoken Tutorial | IIT Bombay | Apr 2025 | Credential ID: 4249817OSL

IoT Internship Certificate – High Power Device Controlling | CADD Centre | Aug 2023

ACTIVITIES & INTERESTS

- Technical Member @ ZeroDay – cybersecurity research and CTF participation
- Competitive ethical hacking, CTF challenges, and AI/ML applications in cybersecurity