

Shubham Pathak

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Education

National Institute of Technology, Hamirpur Aug 2024 – June 2028
Bachelor of Technology in Electronics and Communication Engineering **CGPA: 9.05/10 — Rank: 10/145**

DHT Saraswati Vidya Mandir, CBSE 2023
Class 12 — CBSE **Percentage: 92.8% — Rank: 2/216**

Skills

Languages: C, Python, HTML, CSS, JavaScript
Frameworks & Libraries: React.js, Bootstrap
Developer Tools: Git, GitHub, VS Code
Soft Skills: Strategic Problem Solving, Communication, Event Management, Public Relations & Outreach

Volunteer Experience

Volunteer, Robotics Society, NIT Hamirpur Nov 2024 – June 2025

- Contributed to robotics design and automation tasks in team projects.
- Organized and conducted **RoboWeek 3.0**, a multi-event intra-college robotics fest.
- Managed event logistics, promotion, and on-ground coordination.

Projects

[🔗 Smart Glasses for Alzheimer's Patients](#)
Raspberry Pi 5, Python, OpenCV, Tesseract OCR, SQL

- Designed smart glasses capturing real-time environmental context.
- Integrated OCR and text captioning for real-time scene understanding.
- Stored extracted data with timestamps in SQL database for memory recall.
- Deployed entire system on Raspberry Pi 5 for edge-based processing.

[🔗 GitHub-Style Personal Portfolio](#)
HTML, CSS, JavaScript, React.js

- Developed a responsive portfolio website inspired by GitHub's interface.
- Implemented modular React components, smooth scrolling, and routing.
- Focused on clean, developer-centric user experience.

Awards

Winner – Roboquest 2.0, NIT Hamirpur

- Secured **1st place** among **100+ teams** in a maze-solving robotics competition.
- Built a hand-gesture-controlled bot using OpenCV for real-time finger tracking.
- Achieved accurate maze navigation using only gesture inputs.