

# 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

[G](#) **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.

[G](#) **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.