HARSH BAGHEL

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# EDUCATION

**B. Tech - Madhav Institute of Technology and Science Gwalior**

*Internet Of Things with 7.5/10 CGPA* **Jun 2021 – Jun 2025**

# SKILLS

* **Languages**: C, C++, Python, JavaScript — Used in full-stack apps and robotics logic
* **Frameworks:** React.js, Express.js — Developed modular UIs using React hooks and reusable components; implemented REST APIs for CRUD operations
* **Tools & Platforms**: Git, GitHub, MySQL, Firebase, NodeMCU, Raspberry Pi
* **AI/ML**: TensorFlow, CNN, Deep Learning — Applied in real-time plant disease detection project

# WORK EXPERIENCE

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| **Intern DRDE-DRDO** | **Gwalior** |
| *Intern* | **Feb 2025 - Present** |

* Developed real-time live chat app using MERN & WebSockets, supporting 100+ concurrent users.
* Enhanced performance by 35% via WebSocket optimization and chat delay handling in Node.js.
* Integrated chatbot using Dialogflow, improving student response time by 40%

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| **Winter Internship Intern** | **Gwalior** |
| *Full Stack Developer Intern* | **Oct 2023 - Jan 2024** |

* Built MERN-based secure chat system with source authorization and role-based controls.
* Enhanced UI responsiveness by 35% via React performance tuning.

# Technical Projects

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**Voice Control Bot (IoT-Based Project)**

* Built voice-activated robot using Arduino and custom voice modules, achieving 90% command accuracy.
* Integrated modules using circuit design tools; implemented sensor-based decision logic.

**Movie Recommendation System (ML-Integrated MERN)**

* Designed personalized recommendation system using MERN + MySQL.
* Improved user retention by 25% via clickstream analysis and bounce rate reduction.

**Plant Disease Detection (CNN)**

* Trained a CNN on 1,000+ images to identify 82% accurate plant diseases.
* Reduced manual inspection time by 30% through Lambda-based automation.

# ACHIEVEMENTS AND PARTICIPATION

* Led 2 technical mentoring sessions for 50+ students in ISTE & EI clubs.
* Delivered actionable technical guidance through live sessions and workshops.
* Coordinated project outcomes for 30% higher success in tech competitions.

**CERTIFICATIONS**

* **Python Essentials – Cisco (2024)**
* **NPTEL: Certificate in DBMS (2023)**