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

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%

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

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)**