

# HARSH BAGHEL

[+916262580220](tel:+916262580220) | [harshbaghel235@gmail.com](mailto:harshbaghel235@gmail.com) | [linkedin.com/in/harsh-baghel](https://linkedin.com/in/harsh-baghel) | [github:harsh4241](https://github.com/harsh4241)

## WORK EXPERIENCE

### Intern DRDE-DRDO

Intern

Gwalior

Feb 2025 - Present

Developed real-time chat application leveraging the MERN stack, incorporating WebSockets for seamless messaging, user authentication, and chat room.

Working on ollama offline chatbots, optimizing chatbot representing using LLMs (Large Language Models) for efficient real-time communication.

Implementing retrieval-augmented Generation (RAG) to enhance chatbot response by integrating real-time knowledge retrieval with generative models.

### Winter Internship Intern

Full Stack Developer Intern

Gwalior

Oct 2023 - Jan 2024

Developed real-time chat application leveraging the MERN stack, incorporating WebSockets for seamless messaging, user authentication, and chat room.

## EDUCATION

### B. Tech - Madhav Institute of Technology and Science

Internet Of Things with 7.5/10 CGPA

Gwalior

June 2021 – June 2025

## PROJECTS

### Voice Control Bot

IoT Based Project

- Develop a voice-activated robot using Arduino, integrating voice recognition, motor control, and custom, algorithms to Commands and facilitate precise movement.
- Led the design and development of the robot's hardware and software integration.

### Movie Recommendation System

Full Stack Development / MERN Stack, MySQL

- Build a content based filtering and collaborative filtering movie recommendation system using MERN stack and MySQL. Integrated responsive UI features for users and clients , offering search, filtering , and personalized recommendation features.

### Plant Disease detection using CNN

Machine Learning

- Built a Develop a deep learning model using CNN to detect plant disease from leaf images. Optimized lambda functions to reduce latency and improve scalability for handling high data throughput.

## ACHIEVEMENTS AND PARTICIPATION

Organized Hack-Xpert Event under guidance of Goldman Sachs Associate Manger. It aims to teach hacking with live project for over 400 students. Helped in learning and networking opportunities, enhancing development skills and technical proficiency.

Participated in hackathon, open source contribution, active member and coordinator of clubs like Electronics Club, ISTE, E-cell and organized various donation camps.

## SKILLS

Languages	C, C++, Python, HTML, CSS, JavaScript, SQL
Frameworks	ReactJs , ExpressJs
Hardware	Arduino, NodeMCU (ESP8266), Raspberry Pi
Tools	Git, GitHub, Google Colab, MySQL
AI/ML	Machine Learning, Deep Learning, Convolutional Neural Networks (CNN), TensorFlow,

## CERTIFICATIONS

- Platforma ISTE Bot Race Certificate
- NPTEL Certificate (2024).