

# AYUSH KUMAR SINGH

Gorakhpur, Uttar Pradesh, India

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## CAREER OBJECTIVE

I am an aspiring technology enthusiast with a strong interest in creating impactful digital solutions that address real-world challenges. I believe in the power of continuous learning, innovation, and collaboration to drive positive change. With a deep sense of social responsibility, I aim to use technology for awareness, inclusion, and community development.

## EDUCATION

### Chandigarh University

B.E. in Computer Science and Engineering (Specialization in AIML)

- CGPA: 7.41 / 10.00 (till 4th Semester)

Mohali, Punjab

Aug 2023 – Present

## PROJECTS

### Lost and Found Tracker Webapp | HTML, CSS, JS, Firebase, Supabase

- Developed a campus-based web application allowing students and staff to report, search, and recover lost or found items.
- Built a user-friendly interface using HTML, CSS, and JavaScript.
- Integrated Firebase (Authentication & Firestore) and Supabase to ensure secure login, real-time data storage, and accessibility across multiple devices.

### AI Chatbot | Python, NLP, LLM (Gemini)

- Created an AI chatbot utilizing NLP and advanced LLM models (Gemini) to perform general assistive functionalities.
- Implemented a Speech-to-Text system to accept voice commands and provide context-aware answers.
- Designed the system to understand natural language, maintain conversational flow, and generate human-like responses.

### Rehab Model App | MediaPipe, PyTorch, NumPy, OpenCV, Flask, Socket.IO

- Developed a solution to assist in the structured process of rehabilitation for individuals recovering from injuries or surgery.
- Utilized Computer Vision (OpenCV, MediaPipe) and PyTorch to track movements for guided exercises and movement therapy.
- Aims to help patients regain independence by focusing on coordination and functional abilities.

## TECHNICAL SKILLS

**Languages:** Python, C++, C, HTML, CSS, JavaScript

**Core Concepts:** Object-Oriented Programming (OOPS), DBMS, Operating Systems

**Frameworks/Libraries:** PyTorch, NumPy, OpenCV, Flask, Socket.IO

**Developer Tools:** VS Code, GitHub, Firebase, Supabase

## ACHIEVEMENTS

**Research publication:** Smart AI-Enabled Accident Detection and Emergency Response System for Abandoned Roads, 6th International Conference on Data Analytics and Management (ICDAM 2025), London Metropolitan University (UK) & Partner Institutions, June 2025.

**Patent:** Solar-Powered Smart Irrigation Device — Registered Design, India Design No. 452566-001 | Class 15-03 | Registered on 23 Mar 2025

**Inter-Department Modeling Competition (2025):** Top 5 Finalist at Chandigarh University.

## SOFT SKILLS & INTERESTS

**Soft Skills:** Teamwork, Leadership, Problem Solving, Decision Making, Time Management.

**Interests:** Sports, Travelling, Event Management.