

AYUSH KUMAR SINGH

Gorakhpur, Uttar Pradesh, India

+91-8960271288 | ayush022105@gmail.com | LinkedIn: Ayush Singh | GitHub: Ayush0221

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

Mohali, Punjab

B.E. in Computer Science and Engineering (Specialization in AI/ML)

Aug 2023 – Present

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

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.