ANSH KUMAR TRIPATHI

Computer Engineering Student

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PROFESSIONAL SUMMARY

Self-driven developer with hands-on experience in AI/ML, computer vision, reinforcement learning, and full-stack application development. Built and deployed multiple end-to-end solutions, including on-device LLM tools and industry-focused AI systems. Strong skills in Python, data structures, system programming, and problem-solving. Capable of working independently and delivering scalable, real-world solutions.

PROJECTS

ResumeSpace — **Live Website**   *September 2025 - October 2025*

Build professional resumes with complete privacy. Your data never leaves your browser.

AI Safety for Smart Manufacturing System — **View on YouTube**   *March 2025 - May 2025*

An AI driven accident prevention system for modular manufacturing Systems, specifically tailored to a dynamic automobile factory. It blends deep learning, real-time PPE detection, and a realistic Unity simulation to demonstrate a powerful safety solution.

GrayMatter - Personal AI Study Assistant — **View on YouTube**   *March 2025 - May 2025*

Built AI-powered study planner with offline local LLMs (Ollama) for personalized student organization. Implemented chat-based integration and vector search using FAISS with Python backend for sub-second document retrieval.

WORK EXPERIENCE & INTERNSHIPS

Skill Based Training (Intel AI for Manufacturing) | Intel Corporation   Feb 2025 - Jul 2025

- Developed a dual-approach AI-based accident prevention system for Modular Manufacturing, featuring real-time helmet detection and a Unity 6 simulation to demonstrate automated safety responses.

AI/ML Intern | Edunet Foundation   Dec 2024 - Jan 2025

- Engineered real-time human pose estimation system using AI/ML for images, video, and live camera feeds.
- Completed project under Microsoft-SAP CSR initiative organized by AICTE, demonstrating practical AI implementation.

Honorary Secretary | LEO Club of Ahmedabad Host Main   July 2024 - July 2025

- Led 5+ community service initiatives under Lions Clubs International, promoting leadership and student empowerment.
- Organized and executed projects reaching 200+ community members, aligned with "We Serve" motto.

EDUCATION

B.E. Computer Engineering   2022 - 2026

L.D. College of Engineering, GTU | Ahmedabad, India   CGPA: 7.28/10

TECHNICAL SKILLS

Programming & Scripting Languages: **Tools & Libraries:**

C++ • Python • HTML • CSS • JavaScript   ReactJS • NodeJS • Next.js • Flask • MongoDB • Git/Github • REST APIs

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CERTIFICATIONS

- **Google:** Foundation of Cybersecurity
- **IBM:** Generative AI Applications, Python & Flask Development, React Front-end Development, Git & GitHub
- **UC Irvine:** Internet of Things (IoT) Programming

ACHIEVEMENTS

- Represented GTU and Gujarat in the AI impact fest in delhi (17-18 Nov 2025)
- Volunteering in NCC from 2023, and attended National camps.

AREAS OF INTEREST

Cybersecurity • Artificial Intelligence & Machine Learning • IoT & Embedded Systems • Full-Stack Web Development