

# KARTTIK GUPTA

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## Education

**Punjab Engineering College (Deemed University)** Chandigarh, India  
*B.Tech, Electronics & Communication Engineering (CGPA: 9.14/10) 2023 – 2027 Minor Specialization in Artificial Intelligence (GPA: 10.0/10)*

## Technical Skills

**AI/ML:** LLMs (Gemini API, LangChain), Agentic AI Workflows, Scikit-learn, Pandas, NumPy, YOLOv8, ByteTrack, Streamlit, Prompt Engineering  
**Languages:** Python, C++, JavaScript  
**Backend:** Node.js, Express.js, RESTful APIs, FLASK  
**Databases:** PostgreSQL, MySQL, Firebase (NoSQL)  
**Developer Tools** **Cloud:** Git, GitHub, Microsoft Azure  
**Core Concepts:** Data Structures Algorithms, Object-Oriented Programming (OOP)

## Professional Experience

**Edunet Foundation (Microsoft-AICTE Initiative)** Remote  
*AI Intern* May 2025 – June 2025

- Designed and executed end-to-end AI workflows on Microsoft Azure, from data ingestion and preprocessing to model training, validation, and performance analysis.
- Gained hands-on experience in deploying production-oriented AI systems, focusing on creating scalable and well-documented classification and regression models for enterprise use cases.

## Projects

**AI Summary Pro – GenAI Problem Solver** *Python, Gemini API, Prompt Engineering*  
[Link](#)

- Developed an AI agent using the Gemini LLM to implement AI-driven automation, transforming unstructured user problems into structured, actionable technical summaries.
- Engineered advanced prompt strategies to create a robust agentic workflow, enabling the system to handle ambiguous inputs and deliver consistently high-quality outputs for documentation and problem-solving.

**VoiceCart — Voice-First E-commerce Platform** *React, Node.js, Express.js, LLM*  
[Link](#)

- Architected an AI-first system that allows users to manage their shopping cart using natural language, creating a seamless, voice-driven e-commerce experience.
- Built an intelligent backend agent with Express.js and the Gemini LLM to interpret conversational commands, demonstrating a practical application of agentic AI in a real-world workflow.

**End-to-End Vehicle Pedestrian Tracking System** *YOLOv8, ByteTrack, Streamlit, Python*  
[Link](#)

- Managed the full AI project lifecycle from research to prototyping by fine-tuning a custom YOLOv8 model on over 10,000 images to achieve 92% mAP for real-time object detection.
- Deployed the system as an interactive prototype using Streamlit, showcasing the ability to translate complex computer vision research into a functional, user-facing application.

## Leadership Experience

**Entrepreneurship and Incubation Cell, PEC** Chandigarh, India  
*Joint Head, E-Summit '25* 2025

- Directed the end-to-end system building and operational execution for a summit serving 2,000+ participants in a fast-paced, startup-style student organization.

**PEC Chandigarh** Chandigarh, India  
*Sub Head, Startup Fair '24* 2024

- Demonstrated strong problem-solving skills by optimizing event logistics and company onboarding workflows, boosting pre-event coordination efficiency by 30%.