

# KARRTIK GUPTA

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## Education

<b>Punjab Engineering College (Deemed University)</b> <i>B.Tech, Electronics &amp; Communication Engineering (CGPA: 9.14/10) 2023 – 2027 Minor Specialization in Artificial Intelligence (GPA: 10.0/10)</i>	Chandigarh, India
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## Technical Skills

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

## Professional Experience

<b>Edunet Foundation (Microsoft-AICTE Initiative)</b> <i>AI Intern</i>	Remote
	May 2025 – June 2025
<ul style="list-style-type: none"><li>Designed and executed end-to-end AI workflows on Microsoft Azure, from data ingestion and preprocessing to model training, validation, and performance analysis.</li><li>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.</li></ul>	

## Projects

<b>AI Summary Pro – GenAI Problem Solver</b> <a href="#">Link</a>	<i>Python, Gemini API, Prompt Engineering</i>
<ul style="list-style-type: none"><li>Developed an AI agent using the Gemini LLM to implement AI-driven automation, transforming unstructured user problems into structured, actionable technical summaries.</li><li>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.</li></ul>	
<b>VoiceCart — Voice-First E-commerce Platform</b> <a href="#">Link</a>	
<ul style="list-style-type: none"><li>Architected an AI-first system that allows users to manage their shopping cart using natural language, creating a seamless, voice-driven e-commerce experience.</li><li>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.</li></ul>	
<b>End-to-End Vehicle Pedestrian Tracking System</b> <a href="#">Link</a>	
<ul style="list-style-type: none"><li>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.</li><li>Deployed the system as an interactive prototype using Streamlit, showcasing the ability to translate complex computer vision research into a functional, user-facing application.</li></ul>	

## Leadership Experience

<b>Entrepreneurship and Incubation Cell, PEC</b> <i>Joint Head, E-Summit '25</i>	Chandigarh, India 2025
<ul style="list-style-type: none"><li>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.</li></ul>	
<b>PEC Chandigarh</b> <i>Sub Head, Startup Fair '24</i>	
<ul style="list-style-type: none"><li>Demonstrated strong problem-solving skills by optimizing event logistics and company onboarding workflows, boosting pre-event coordination efficiency by 30%.</li></ul>	