VANSH KHANEJA

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Computer Science student and AI engineer with hands-on experience in LLMs, AI Agents, computer vision, cloud deployments, web solutions and intelligent automation.

Experience

Mersate, SDE Intern (Full Time)   Oct 2024 – Apr 2025

- Deployed the company's web platform and AI services on AWS EC2, ensuring performance, scalability, and reliability
- Collaborated across teams to integrate AI features into the platform and troubleshoot cloud-based deployment challenges

Empire Imports LLC, Python Developer (Contract)   May 2025 – Jul 2025

- Built an AI-powered customer support chatbot for automated product recommendations, improving response efficiency and user experience.
- Worked on automated product image editing solution capable of detecting and fixing visual defects, regenerating cropped areas and aligning items for product catalogue optimization.

Helios Infotech, AI Developer (Full Time)   Jul 2025 – Present

- Worked over a variety of Python/AI projects based on the client requirements and updates covering variety of tasks in the field of computer vision, finetuning language models and training machine learning models.
- Built and deployed various python backends as per the needs of the client's requirements and needs and changes needed over time.

Skills

Programming : Python, Java (DSA), C/C++, SQL, React, Next.js

Techniques :Tensorflow, OpenCV, LangGraph, Fine Tuning LLMs, Agentic AI, Redis, Flask, FastAPI

Deployments : Git, Docker, AWS, Azure, CI/CD

Education

B. Tech in Computer Science – 8.8 CGPA   Jul 2026
Guru Gobind Singh Indraprastha University   Delhi, India

(10 + 2) CBSE Board - 94.6%   Jul 2022
Goodley Public School   Delhi, India

Projects

ConvoFlow : Python, FastAPI, Next.js, React Flow, Multi-LLM (OpenAI/Groq), Qdrant, RAG

- **Designed** a no-code AI workflow builder with visual drag-and-drop canvas (React Flow) and 15+ modular nodes for LLM calls, conditional logic, web search, and email automation
- **Created** a customizable pipeline using OpenAI embeddings + Qdrant vector database for semantic document retrieval and knowledge-augmented chatbot responses

Drapely.ai : Next.js, FastAPI, IDM-VTON, OpenPose, DensePose, YOLO, OpenAI Vision, Modal GPU, Stripe

- **Built** a virtual try-on platform using IDM-VTON diffusion on Modal GPUs, combining DensePose/OpenPose parsing with GPT-4o Vision for photorealistic clothing visualization
- **Added** batch-optimization over FastAPI microservice with one-time preprocessing for multi-garment inference to avoid timeouts, integrated with full e-commerce stack (Clerk, Stripe, Prisma)