KARTIKEYA SWARUP SHARMA

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EDUCATIONAL QUALIFICATIONS

Institution	Year
Graphic Era Hill University, Dehradun, Uttarakhand	**2026**
Bachelor of Technology in Computer Science and Engineering	CGPA – 7.16

WORK EXPERIENCE

Ernst & Young (EY) - Summer Intern — Sep25 – Dec25

- Developed **VendorGuard**, a **RAG-based AI system** to analyze vendor documents (Contracts, SLAs, SOC 2, GDPR policies).
- Built a **Retrieval-Augmented Generation (RAG)** pipeline to analyze vendor documents and identify compliance gaps.
- Used **LLMs** to classify compliance controls, detect risks, and generate **explainable risk scores with evidence**.
- Reduced **manual vendor security review effort** by automating document analysis and compliance mapping.
- Collaborated with cross-functional teams to deliver intern-level features and improvements.
- Designed and executed test cases to validate backend services and API responses.

PROJECTS

RagTube – Local RAG based YouTube Q&A System

- Built a **local RAG application** to perform semantic Q&A on YouTube video transcripts using FAISS and locally hosted LLMs.
- Designed an end-to-end pipeline for **transcript extraction, chunking, embedding, and context retrieval**.
- Designed a **real-time streaming response system** for faster and more interactive answers.
- Optimized chunking and retrieval logic to improve answer relevance and reduce hallucinations.

Tech Stack: Python, RAG, Ollama, FAISS, YouTube Transcript API

Personal Portfolio Website

- Built a responsive personal portfolio using **React + Vite** with a modular, component-based architecture.
- Designed reusable UI components (cards, toasts, layouts) to ensure clean structure and maintainability.
- Implemented modern frontend practices including **hooks, state management, and responsive layouts**.
- Implemented **responsive UI layouts** using Tailwind CSS with mobile-first design principles.

Tech Stack: React, Vite, JavaScript, Tailwind CSS

Face Recognition Attendance System

- Developed a real-time **face recognition attendance system** using Python and OpenCV.
- Implemented **face detection and encoding** to identify individuals from live camera input.
- Automated **attendance logging** by recording recognized faces with timestamps.
- Designed a lightweight, local system without external APIs for fast execution.

Tech Stack: Python, OpenCV, NumPy

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python, JavaScript, TypeScript, SQL
Frontend: ReactJs, NextJs, TailwindCss
Backend and APIs: FastAPI, RESTful APIs
Devops & Tooling: Docker, Git & GitHub, FAISS, Vector Database (Qdrant)

CERTIFICATIONS

- **Affective Computing** — NPTEL
- **Introduction to Cyber Security** — Swayam
- **Google Cloud Computing Foundations** — NPTEL