

# Nikhil

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## SUMMARY:

AI & Data Science undergraduate with hands-on experience in building production-oriented AI systems, including RAG pipelines and real-time computer vision applications.

## TECHNICAL SKILLS:

- **Frontend:** JavaScript, React Js
- **Backend:** Python, C, C++, Java (Basics), R (Basics)
- **DevOps:** Linux (Basics), Docker
- **Database:** MySQL, MongoDB

## EXPERIENCE:

### [\[Link\]](#) **Reliable RAG-Based Knowledge System** – Personal Project

**Tech Stack:** Python, FastAPI, LangChain, RAG, LLM APIs, Sentence Transformers, MongoDB, Similarity Search, Source Verification, Git

- Built a source-verified RAG system for reliable knowledge retrieval.
- Implemented embedding-based similarity search using vector databases.
- Integrated LLM APIs with confidence thresholds to reduce hallucinations.
- Exposed functionality via FastAPI for scalable inference.
- Logged queries and metadata using MongoDB for traceability.

### [\[Link\]](#) **Facial Emotion Detection System** – Personal Project

**Tech Stack:** Python, OpenCV, DeepFace, NumPy, Real-Time Computer Vision, Git

- Developed a real-time facial emotion detection system using computer vision.
- Performed live face detection and emotion classification via webcam input.
- Integrated DeepFace models for emotion inference.

### [\[Link\]](#) **Image Editor GUI APP** – Personal Project

**Tech Stack:** Python, PyQt5, PIL, puinstaller

- Built a dark-themed PyQt5 image editor with real-time previews, filters, and transform tools.
- Implemented modular architecture separating UI, image logic, and crop interactions for scalability.
- Designed a professional desktop UX with custom stylesheets, state-aware controls, and undo/reset flow.
- Integrated non-destructive editing features including crop, rotate, blur, sharpen, brightness, and contrast.

## TRAINING:

**SkillStone, Chandigarh** – Python Technology

**Duration:** 45 Days (Summer 2024)

- Integrated basic Web apps focused on Frontend and Backend functionality using Python.
- Worked with MongoDB for data storage.

## EDUCATION:

**Chandigarh Group of Colleges, Landran** | Bachelor of Technology in Artificial Intelligence & Data Science