

# Rohan R

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**DOB:** 28/05/2004

## Professional Summary

AI & Data Science student with hands-on experience in OCR, Computer Vision, Machine Learning, and Generative AI. Passionate about leveraging AI technologies to solve real-world problems with a strong foundation in Python, OpenCV, and enterprise-level data processing.

## Education

### **Global Academy of Technology**

Bachelor of Engineering in Artificial Intelligence & Data Science  
GPA: 9.48/10

*Bangalore, India  
Expected 2026*

## Projects

### **Face Anti Spoofing System** — *Python, OpenCV, TensorFlow, Keras, StreamLit, SVM* — *GitHub* 2025

- Developed a dual-approach system to detect spoofed faces using LBP + SVM and a lightweight CNN, achieving high accuracy on 12k+ images.
- Implemented robust preprocessing including face detection, cropping, resizing, normalization, and data augmentation, enabling real-time webcam testing with OpenCV.
- Modular project pipeline with feature extraction, model training, and inference, supporting experimentation, model persistence (joblib/.h5), and optional StreamLit deployment.

### **Automatic Image Enhancer** — *OpenCV, Python, NumPy, Streamlit* — *GitHub* 2025

- Enhanced images using CLAHE for brightness and contrast improvement across multiple formats.
- Developed a Streamlit interface for real-time upload, enhancement, and side-by-side visualization.

### **AI-Powered Document Search & Question Answering (RAG System)** — *Python, Streamlit, FAISS, Sentence-Transformers, Gemini API* — *GitHub* 2025

- Developed an intelligent document search and question-answering system using RAG with Google Gemini.
- Combined FAISS-based vector similarity search and Sentence-Transformers embeddings to enable context-aware knowledge retrieval from uploaded documents and URLs.
- Implemented a secure Streamlit interface supporting local embedding generation, semantic query processing, and real-time, explainable AI responses.

## Technical Skills

**Languages:** Python, SQL

**ML & AI:** PaddleOCR, Scikit-learn, Computer Vision, TensorFlow, Keras, NLP, Deep Learning, NumPy, Pandas, Generative AI, Prompt Engineering

**Tools:** Docker, Git, GitHub, Jupyter, Linux, Streamlit, Tableau, Power BI

**Web:** HTML, CSS

**Core CS Concepts:** Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA), Computer Networks, DBMS, Operating Systems

## Certifications

**Data Science:** Python for Data Science (NPTEL), Data Science for Engineers (NPTEL)

**Infosys Springboard:** Python Foundation, Front-End Web Developer, Natural Language Processing and Web Technology

**Cybersecurity:** Cybersecurity and Privacy (NPTEL)

## Activities

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**Participant:** HackaLeague 1.0 at Global Academy of Technology

**Interests:** Technological Innovation, Video Games, Music