

Naumaan Saifi

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Skill Summary

Languages: Python, C++, SQL, HTML, CSS

Frameworks: PyTorch, TensorFlow, YOLOv11, Scikit-learn

Tools: Pandas, NumPy, Matplotlib, Seaborn, Jupyter, Tableau, Power BI

Core ML/AI Skills: Deep Learning (CNNs, Object Detection, Data Augmentation), LLMs, RAG, Prompt Engineering, Fine-tuning, Embeddings, Vector Databases

Software Concepts: Object-Oriented Programming (OOP), DBMS, SDLC, Research Methodology

Professional Skills: Analytical Thinking, Communication, Management

Experience

AI Research Intern

New Delhi

AICTE IDEA Lab – GGSIPU

Jun 2025 – Aug 2025

- Built an **AI-powered dental detection system** using CNNs (**TensorFlow, Keras**) with **90% accuracy**.
- Processed large datasets using **SQL** and **Pandas** for high-quality inputs.
- Applied **feature engineering, EDA**, and visualization to improve diagnostic performance.
- Collaborated on a system detecting **30+ dental conditions**.

Machine Learning Intern

Remote

SkillCraft Technology

Jul 2025 – Aug 2025

- Applied **supervised and unsupervised learning** to real-world datasets.
- Built and fine-tuned ML models in **Python (scikit-learn, PyTorch)** with preprocessing, training, and validation workflows.
- Gained experience in **end-to-end ML workflows**, including **deployment and integration**.

Education

University School of Information, Communication and Technology

Aug 2023 – Jul 2027

Bachelor of Technology – Computer Science Engineering

New Delhi

Projects

Dental Disease Detection Model

- Developed a computer vision model using **YOLOv11 (CNN-based)** to detect and localize **30 dental diseases**.
- Annotated, preprocessed, and augmented X-ray datasets; fine-tuned detection pipelines.
- Configured evaluation metrics (**precision, recall, mAP**) for multi-class performance.
- Enhanced project with **OpenCV preprocessing** and exploring **LLM-based report generation**.

Conversational AI with RAG

- Built an **RAG pipeline** integrating an **LLM** with a **vector database (ChromaDB)** for document-grounded QA.
- Implemented **chunking, embeddings (HuggingFace/OpenAI)**, and **semantic retrieval** via **LangChain/LangGraph**.
- Evaluated performance (**precision@k, hit-rate**) and developed a **Streamlit interface** with source citations.

Certifications

Meta Data Analytics Specialization (Coursera, Jul 2025), Machine Learning Specialization (Udemy, Aug 2025), Data Analytics Virtual Internship (Forage – Deloitte Australia, Jul 2025), Data Visualization Virtual Internship (Forage – TATA, Jul 2025)