Rehan Pathan

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Summary

Data Science and **Machine Learning** focused engineering student with hands-on experience in **Python, ML, Deep Learning,** and **NLP**. Built end-to-end ML applications and currently working on **Generative AI** systems using **Large Language Models (LLMs)**, embeddings, and **Retrieval-Augmented Generation (RAG)**. Familiar with **LangChain**, **prompt engineering**, and building lightweight AI applications using **Streamlit**, with working knowledge of **SQL, Git**, and **cloud fundamentals**.

Experience

AI & Cloud Intern, Edunet Foundation (AICTE) — Remote   Feb 2024

- Gained hands-on exposure to **AI, Machine Learning**, and **Cloud Computing** fundamentals through practical learning and workflows.

Projects

Enterprise Knowledge Assistant — RAG-based LLM System

- Developed a document-based question answering system using **Python** and **Large Language Models (LLMs)** for querying PDF documents.
- Implemented **Retrieval-Augmented Generation (RAG)** using text chunking, embeddings, a **FAISS vector database**, and integrated **LangChain** with **Streamlit** for an interactive LLM-powered application.

Pneumonia Detection Using Deep Learning

- Built a **TensorFlow** deep learning model using **MobileNetV2** and **transfer learning** to classify chest X-rays, achieving **86% accuracy and 97% recall**, with **Grad-CAM** based explainability.

Prescripto — Healthcare Appointment System

- Developed a full-stack healthcare web application using **React**, **Express**, and **MongoDB** with appointment booking and digital prescriptions.
- Implemented **JWT-based authentication** and **RESTful APIs** with responsive UI design.

Skills

- **Programming:** Python, JavaScript
- **Machine Learning & AI:** Machine Learning fundamentals, Deep Learning (CNNs, Transfer Learning), NLP basics
- **Generative AI:** Large Language Models (LLMs), Prompt Engineering (basics), Retrieval-Augmented Generation (RAG), Embeddings
- **Tools & Frameworks:** Git, GitHub, TensorFlow, Scikit-learn, LangChain, Streamlit
- **Databases & Cloud:** MySQL, MongoDB, AWS, FAISS

Certifications & Extra-Curricular Activities

Certifications

- Google Cloud Career Launchpad — GenAI Leader Track (**Google**, 2025)
- Full Stack Web Development Bootcamp (**Udemy**, 2025)
- AWS Cloud Foundation (**AWS**, 2024)

Extra-Curricular Activities: Served as **Technical Head** for college fest two consecutive years.

Education

B.Tech, Computer Science and Engineering   2026
Deogiri Institute of Engineering and Management Studies, Aurangabad   (**CGPA:** 7.55)

Higher Secondary Certificate (HSC)   2020
Maulana Azad College of Science, Aurangabad   (Percentage: 69.54%)

Secondary School Certificate (SSC)   2018
Holy Cross English High School, Aurangabad   (Percentage: 86.60%)