

ASIM HUSAIN

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SKILLS

Programming & Backend: Python, SQL, FastAPI, REST APIs, Vector Databases, Pandas, NumPy

AI/ML Engineering: Generative AI, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), AI Agents, LangChain, MLOps, TensorFlow, Scikit-Learn, Prompt Engineering

Tools & Cloud: Docker, Azure Cloud, CI/CD, Coding Agents, Git & GitHub

WORK EXPERIENCE

AI/ML Intern

Nov 2025 – Mar 2026

Tech Weave Labs, Noida, India

- Fine-tuned ML and deep learning models for chatbots, NLP tasks, and predictions. Trained CNN-based computer vision models on pre-trained backbones and hit 90%+ classification accuracy across the full pipeline from data preprocessing to evaluation.
- Built Generative AI applications using LLMs, RAG, and Transformers with TensorFlow and PyTorch, cutting model response latency by 15% through pipeline optimization.
- Developed Agentic AI workflows working closely with senior engineers, delivering 2+ internal proof-of-concept tools.

Data Analytics Trainee

Jun 2025 – Aug 2025

Cetpa Infotech, Noida, India

- Automated data preprocessing, analysis, and reporting pipelines using Python, SQL, and Matplotlib, cutting manual effort by 40%.
- Process and analyze 100k+ row datasets using Pandas and NumPy with feature engineering and EDA, reducing redundant data by 25%.
- Wrote optimized SQL queries with complex joins and aggregations to power dashboards that improved model evaluation accuracy.

PROJECTS

LLM Powered RAG Pipeline

[Code Repository](#) | [Live](#)

Python, FastAPI, LangChain, ChromaDB, Jina AI, Whisper STT, Docker, Azure

- Developed a dual-mode (voice & text) multilingual RAG backend using FastAPI, LangChain, and ChromaDB, utilizing Jina AI embeddings and reranking to improve cross-lingual response accuracy by 20%.
- Integrated Sarvam AI and Whisper STT for high-precision speech recognition and text-to-speech synthesis, enabling natural conversational voice search over vector databases.
- Designed a high-throughput session management layer using SQLite in WAL mode; containerized with Docker and deployed on Azure.

Clinical Decision Support System

[Code Repository](#) | [Live](#)

Python, Flask, Scikit-Learn, TensorFlow, PostgreSQL, Docker, Azure

- Built an AI-powered healthcare platform for disease prediction, X-ray screening, and medical report analysis, training classification models on 10K+ samples to 90%+ validation accuracy.
- Integrated SHAP-based explainability, automated monitoring, and reporting dashboards; containerized with Docker and deployed on Azure.

AI-Powered Interview Platform

[Code Repository](#) | [Live](#)

Python, Flask, REST APIs, OpenAI API, PostgreSQL, Vercel, JavaScript

- Architected AI-driven interview platform (designed for 500+ concurrent users) with real-time scoring, sentiment analysis, and progress tracking. Also implemented secure authentication, analytics dashboards, leaderboards, transcript exports, and admin management.

EDUCATION

B.Tech in Computer Science & Engineering (Specialization AI, ML & DL) – GPA: 8.3/10

Teerthanker Mahaveer University, Moradabad

05/2026

ACHIEVEMENTS & CERTIFICATIONS

- Cleared University and National Selection Rounds for Smart India Hackathon (SIH) 2024-25; represented university at SIH twice
- Winner, National Technology Day (Software Category), recognized for innovative project development and technical contribution
- Solved 150+ DSA problems on LeetCode using Python and SQL, while actively contributing to open-source projects.
- AI/ML Engineering Certification ([Coursera](#))