SUMMARY

Final-year Computer Science student with experience in GenAI systems at EY (LLMs, LangChain, FAISS) and AWS deployment at Deloitte. 3× published AI researcher with strong skills in Python, FastAPI, React, and full-stack AI product development.

SKILLS

Programming Python, C, SQL, JavaScript

AI/ML LangChain, LLMs, FAISS, TensorFlow, Keras, Scikit-learn

Data Tools Pandas, NumPy, Matplotlib, GARCH

Web & APIs FastAPI, React, Node.js, REST APIs, PostgreSQL Cloud & DevOps AWS (EC2, S3, Lambda), Git, Docker, Jenkins

Other MongoDB, PowerBI, NLTK, Chart.js

EDUCATION

Manipal University Jaipur

B. Tech in Computer Science and Engineering

• 2× Student Excellence Award — 3× Published Researcher

Jaipur, Rajasthan Sept 2022 – Present

WORK EXPERIENCE

Ernst & Young (EY)

AI Intern, Generative AI & RAG Systems

Delhi, India

May 2025 — Present

- Developed enterprise-grade RAG chatbot using LangChain, FAISS, and Gemini APIs, improving response accuracy by 30%
- Built scalable ingestion and chunking pipelines with embedding optimization for real-time queries
- Integrated prompt workflows with proprietary document stores to automate internal knowledge retrieval and compliance

Deloitte Touche Tohmatsu LLP

Gurugram, Haryana

Software Engineering Intern, Cloud Computing (AWS)

 $May\ 2024\ -\ July\ 2024$

- Completed hands-on training on AWS services including EC2, S3, Lambda, IAM, and CloudWatch
- Practiced real-world deployment scenarios involving cloud architecture, scalability, and security
- Engaged in knowledge-sharing sessions on cloud optimization, infrastructure design, and AWS tooling

PROJECT WORK

Enterprise RAG Chatbot LangChain, FAISS, Gemini API, Python

May, 2025 - July, 2025

- Built an internal enterprise chatbot using RAG (Retrieval-Augmented Generation) for document Q&A
- Integrated vector search (FAISS) and prompt workflows to boost response accuracy by 30%
- Optimized document chunking and embeddings for contextual precision

Product Sentiment Analyzer (Full-Stack NLP App) FastAPI, React, NLTK, PostgreSQL

March, 2025

- Developed a full-stack app to classify user reviews using custom NLP logic and real-time API calls
- Designed a clean React UI with dynamic charts and visual sentiment indicators
- Built preprocessing + storage pipeline with PostgreSQL backend

Hybrid Stock Price Prediction Model LSTM, GARCH, TensorFlow, Keras, Python

January, 2025

- Engineered a hybrid deep learning model combining LSTM (sequential) and GARCH (volatility) networks
- Achieved $R^2 = 0.9901$, RMSE = 0.0125 on S&P 500 data using rigorous error analysis
- Submitted findings for publication in peer-reviewed research venues

Railway Ticketing Chatbot (Rule-Based NLP) Python, NLTK

May, 2025

- Created a rule-based chatbot for train ticket booking using keyword mapping and intent classification
- Simulated booking flow with text interface, input validation, and query classification logic

PUBLICATIONS

CML 2025: Skin Disease Detection using CNN+GAN models on ISIC dataset (Accuracy: 96.3%, Grad-CAM used for interpretability)

ICAESRTA 2K25: Hybrid BiLSTM-GRU model for S&P 500 forecasting ($R^2 = 0.9901$, MAE = 0.0101) Journal: Role of AI in Radiology and Medical Diagnostics – Published in *Cuestiones de Fisioterapia* (2025)

HONORS & AWARDS

Student Excellence Award (x2): For AWS internship at Deloitte and peer-reviewed AI research at Manipal University HackX Finalist (2024): Reached final round of Manipal University's premier hackathon

Paper Presentations: Presented at CML 2025 (Skin Disease AI) and ICAESRTA 2K25 (Stock Forecasting)