

NITHISHKUMAR

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TECHNICAL SKILLS

Programming Languages : Python, Java, C

Web Frameworks & Libraries: Fastapi, Flask, Html, CSS, Streamlit

Python Libraries: Pandas, Numpy, Seaborn, Matplotlib

Traditional Databases: Mysql, Sqlite, Postgresql, MongoDB

Machine Learning & Deep Learning Frameworks: Scikit-Learn (Supervised & Unsupervised), Tensorflow, Pytorch, NLP, ANN, CNN, Opencv

Generative & Agentic AI Frameworks: Langchain, Langsmith, Llama Index, Finetuning, Langgraph, Crewai, Agno, Langflow, Autogen, n8n, google adk, Langgraph, Crewai, Agno, Langflow, Autogen, n8n, google adk

Generative AI Vektordatabases: FAISS, Chroma, Pinecone, Astradb

AWS & Deployments Tools : Docker, Git, Jenkins, Sonarqube, Aws Lambda, S3 Bucket, AWS ECR, AWS Runer, Amazon Bedrocks, Amazon Sagemaker.

EDUCATION

University College Of Engineering, Tiruchirappalli

Nov 2022 - Apr 2026

B.Tech Information Technology - CGPA: 7.09

PROJECTS

1. Insurance Premium Prediction System : Predicted insurance premium categories using features like age, BMI, lifestyle, income, and occupation. Built data validation & computed features with **Pydantic**, trained models with **scikit-learn**, and exposed via **FastAPI + Streamlit**. Containerized with Docker and deployed on AWS ECR.

2. Medical Chatbot (GenAI + AWS Deployed): AI-powered chatbot to solve medical-related queries in real-time. Built with **Groq API, Pinecone, Flask, HTML/CSS**, version-controlled using **Git, CI/CD** automated with **Jenkins**, and Build scan with **AquaTrivy**. Deployed on AWS (**Docker + ECR + Runner**) for scalable, production-ready use. Provides real-time medical guidance and symptom triage for users, suitable for telemedicine platforms.

3. Bus Booking System with Agents (Agentic AI + AWS Deployed): Developed a CRUD-based bus booking platform with agent workflows for easy reservation. Built using **FastAPI, Streamlit, PostgreSQL**, with **Pydantic** for data validation, version-controlled with **Git**, and CI/CD automated via **Jenkins with SonarQube** integration. Enables users to manage bookings efficiently, ideal for transport platforms or travel apps. **Deployed on AWS (Docker + ECR + Fargate)** for scalable, production-ready use.

4. Data Analyst & Report Generator (CrewAI + GenAI): Built an AI-powered tool to analyze datasets and generate executive reports automatically. Implemented using **CrewAI, OpenRouter API, LangSmith, ElevenLabs (voice-over)**, for multi-modal outputs. **Streamlit** used for interactive frontend UI, visualizations created with pandas, matplotlib, seaborn, version-controlled with **Git**.

CERTIFICATION

Complete Generative AI Course With LangChain and HuggingFace – Udemy

Building Agentic RAG For VectorDB -KrishAI Technologies

