

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 Vectordatabases: FAISS, Chroma, Pinecone, Astraadb

AWS & Deployments Tools : Docker, Git, Jenkins, Sonarqube, Aws Lambda, S3 Bucket, AWS ECR, AWS Runner, 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

