

KARTHIK MARELLA

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EDUCATION

Aditya College Of Engineering

B.Tech - CSE(Artificial Intelligence and Machine Learning) - **CGPA - 7.52** 2020 – 2024
Surampalem, Andhra Pradesh

Sri Aditya Junior College

INTERMEDIATE - MPC(Maths,Physics,Chemistry) - **CGPA - 9.13** 2018 – 2020
Kakinada, Andhra Pradesh

COURSEWORK / SKILLS

- | | | |
|-----------|-------------|--------------------|
| • Python | • ML flow | • Machine Learning |
| • AWS | • Docker | • LangGraph |
| • Jenkins | • LangChain | • n8n |

EXPERIENCE

AWS Devops Intern at Technical Hub |

July 2022 - March 2023

- Learned and Implemented **AWS,Docker,Git,Jenkins,CI/CD**
- Working on a Project Using CI/CD Methodologies.
- Develop a Static website Using Docker.
- Implementing AWS for the Hosting the Website.
- Handle the Database and created a responsive front-end using HTML, CSS, and JavaScript.

PROJECTS

GLAUCOMA DETECTION USING DEEP LEARNING | PYTHON ,CNN,Django

- Developed a deep learning model to detect glaucoma from retinal images.
- Utilized a dataset comprising images of both healthy and glaucomatous eyes.
- Implemented convolutional neural networks (CNNs) for feature extraction and classification.
- Achieved significant accuracy in automated glaucoma detection, aiding early diagnosis and intervention.
- Technologies Used: Python, TensorFlow, Keras, Convolutional Neural Networks (CNNs), Django ,HTML,CSS,JavaScript.

LLM Chatbot Implementation Using LangChain 📄| LangChain, RAG, OpenAI

- Developed and deployed a chatbot application using **LangChain** for conversational logic and **LangServe** for scalable interactions.
- Integrated **OpenAI** models and **RAG (Retrieval-Augmented Generation)** for enhanced language understanding and contextual responses.
- Implemented **agents** to handle complex user queries and **FastAPI** for robust API development.
- Utilized **Ollama** for efficient model deployment and management, ensuring seamless operation.
- **Technologies Used:** LangChain, LangServe, OpenAI, RAG, Agents, FastAPI, Ollama.

TECHNICAL SKILLS

Languages: Python

Technologies: AWS, Azure, Docker, SQL, Jenkins, Jira, GenAI, PromptEng, LangChain, Air flow, ETL, DVC, n8n, MCP, A2A

Developer Tools: VS Code, Jupyter Notebook, colab, Github, Git.

CERTIFICATIONS

- AWS Certified Cloud Practitioner -**AWS**
- Azure Administrator Associate- **Microsoft**
- Azure AI Fundamentals-**Microsoft**
- AI Certified Foundations Associate-**Oracle**