

NATHANI RAJITHA

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Work Experience

AI Trainee, Lifebox Next Gen

06/2026 – Present

- Developing AI-powered applications using Python, FastAPI, LangChain, CrewAI, and Google Gemini API with a focus on scalable and intelligent solutions.
- Designing and implementing LLM-based multi-agent workflows for content generation, research automation, and document question answering.
- Applying Retrieval-Augmented Generation (RAG), prompt engineering, vector embeddings, and REST APIs to build context-aware AI applications.
- Integrating external services including Tavily Search, DuckDuckGo Search, and YouTube API for real-time information retrieval and workflow automation.
- Collaborating on end-to-end AI project development, following modular architecture and modern backend development practices.

Education

B.Tech, Electronics and Communication Engineering, VVITU

2022 – 2026

CGPA : 8.31

BIEAP, Physics, Chemistry and Mathematics, Narayana College

2020 – 2022

Percentage: 96.4%

SSC, Sri Chaitanya School

2020

Grade: 10

Skills

Languages

Python, C, Verilog (Beginner), SQL

Tools

Jupyter Notebook, VS Code, GitHub, Git

Skills

Prompt Engineering, AI & LLM Frameworks, AI Development, Automation

Projects

Instant AI Blog Generator

- Developed an AI-powered blog generation platform using Python, FastAPI, CrewAI, LangChain, and Google Gemini API.
- Integrated DuckDuckGo Search and Tavily Search for real-time web research to generate accurate, up-to-date blog content.
- Implemented multi-agent workflows, prompt engineering, and REST APIs to automate research, editing, and formatting.
- Designed a scalable backend with FastAPI and a modular architecture for efficient AI-driven content generation.

Sustainable and No Contact Attendance system

- Developed a contactless attendance system using Python, OpenCV, and Machine Learning (LBPH) for automated face recognition.
- Built a Tkinter-based control panel enabling users to capture faces, train models, and record attendance seamlessly.

Skill Gap Analyzer

- Developed an AI-powered resume analyzer using Python and Streamlit that matches user resumes with job roles to identify skill gaps.
- Integrated Sentence-Transformers, spaCy, and Flan-T5 for semantic skill matching and local AI-based summary tailoring without API costs.
- Enabled ATS-optimized resume enhancement with matched/missing skill insights, realistic bullet generation, and downloadable reports.

Certificates

- Oracle Cloud Infrastructure Generative AI Professional
- AgentBlazer Champion (Salesforce)
- Hardware and Operating Systems(EDX)
- Digital Electronics Courses(Infosys)