

Ramesh Nayak Rathlavath

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Professional Summary

- : AI/ML Engineer passionate about Gen AI, RAG, and LLM applications with hands-on experience integrating LangChain, Hugging Face, and MCP-based tool-calling. Proven ability to deploy full-stack AI applications with real-time feedback and offline inference systems.

Education

Rajiv Gandhi University of Knowledge Technologies	Nirmal
• <i>B.Tech - Computer Science Engineering; CGPA: 8.4</i>	2021 - 2025
Nxt Wave Disruptive Technologies	Hyderabad
• <i>Industry Ready Certification in Full-stack Development</i>	2021 - 2025
RGUKT - Intermediate	Nirmal
• <i>MPC / CGPA: 8.97</i>	2019 - 2021
ZPHS Boys Pebbair, Wanaparthy	Wanaparthy
• <i>SSC / CGPA: 9.8</i>	2018 - 2019

Skills

- **Languages:** Python, C++, JavaScript, Java
- **AI/ML Tools:** Hugging Face, Transformers, Ollama, LangChain, MLflow
- **Concepts:** RAG, Model Fine-tuning, Offline Inference, MCP, Function Calling, Prompt Engineering
- **AI/ML Tools:** Hugging Face, Transformers, Ollama, LangChain, MLflow, RunPod
- **Frameworks:** React.js, Next.js, Node.js, Express
- **Databases:** SQL, MongoDB, Firebase
- **Tools:** Git, GitHub, VS Code, Figma
- **Soft Skills:** Team Player, Public Speaking, Ownership, Fast Learner

Experience

Centific	Chennai, India
• <i>AI/ML Engineer – Full-time / LLMs, RAG, MLflow, Ollama, MCP</i>	Oct 2024 – Present
◦ LLMs / VLMs / DL Model Work: Training and optimizing large-scale models like LLMs, VLMs, and Deep Learning models using on-premise GPU infrastructure.	
◦ Offline Inference with Ollama: Built air-gapped LLM inference pipelines using Ollama and Hugging Face models.	
◦ Model Fine-Tuning + Metric Logging: Integrated MLflow for logging real-time metrics. Automated model evaluation pipelines.	
◦ RAG + LangChain Integration: Built document QA systems using LangChain, chunking, FAISS, and vector search.	
◦ Model Context Protocol (MCP): Integrated real-time API calls via Pipedream , Twilio , Cursor to enable dynamic LLM outputs.	
◦ Execution Monitoring: Built structured logging and execution flow tracking systems across AI services.	

Projects

- **Learning Path Generator using MCP:** [GitHub: MCP-PIDREAM-STREAMLITE-APP](#)
Streamlit, Python, MCP, Pipedream, Notion, Google Drive, YouTube API
 - **Goal-based Paths:** LLM + prompt generation for personalized learning.
 - **YouTube Google Drive:** Fetches curated videos/docs via Pipedream.
 - **Notion Integration:** Auto-creates learning dashboards.
- **Campus Committee Management Platform:** React, Node.js, MongoDB | Role-based complaint and feedback system.
- **Book Hub:** React, API | Goodreads Clone with login and bookshelf features.

Certificates

- **AI/ML Hackathon – Centific:** Built secure, scalable file uploader with ML inference and monitoring.
- **Deep Learning Masters:** Euron | Completed 4-month DL program covering CNNs, RNNs, and Transformers.
- **310 Days of Learning Award:** NxtWave | Daily upskilling consistency badge.
- **AWS Deployment Certificate:** NxtWave | AWS EC2, S3, CloudFront, RDS hands-on project.

chievements

- **Winner - National Level Coding Contest:** Secured 1st place in a nationwide coding competition among 500+ participants (2022).
- **Leadership - Coding Contest Organizing Team:** Selected from 300+ candidates to be part of the elite organizing team for college-level coding challenges.
- **650+ DS Problems Solved:** Solved over 650 problems across LeetCode and GeeksforGeeks, demonstrating strong data structures and algorithmic thinking.