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
  B.Tech - Computer Science Engineering; CGPA: 8.4 — *2021 - 2025*
- **Nxt Wave Disruptive Technologies** — Hyderabad
  Industry Ready Certification in Full-stack Development — *2021 - 2025*
- **RGUKT - Intermediate** — Nirmal
  MPC | CGPA: 8.97 — *2019 - 2021*
- **ZPHS Boys Pebbair, Wanaparthy** — Wanaparthy
  SSC | CGPA: 9.8 — *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
  AI/ML Engineer – Full-time | LLMs, RAG, MLflow, Ollama, MCP — *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.