

# Ramesh Nayak Rathlavath

Kanchiroupaly Thanda (5-164), Pebbair Mandal, Wanaparthy District, Telangana, 509120

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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

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

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

## Projects

- Learning Path Generator using MCP:** GitHub: [MCP-PIDREAM-STREAMLITE-APP](https://github.com/RathlavathRamesh/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 – Certific:** 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

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- **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.