

PRANAV KRISHNA DANDA

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SUMMARY

AI Engineer with 2 years of experience shipping autonomous LLM agents and backend systems to production. Built and deployed 3 AI agents across 27 active clinical trial sites using Claude API and MCP — eliminating weeks of manual data review per cycle. Experienced across the full stack: agent orchestration, RAG pipelines, AWS infrastructure, and REST APIs at scale.

SKILLS

Languages: Python, SQL

AI & Agents: Claude API, MCP, RAG, TensorFlow, Keras, FAISS, LlamaIndex, Hugging Face

Backend: FastAPI, Django, Flask, REST APIs

Cloud & Infra: AWS (ECS Fargate, SQS, Aurora, S3, Cognito), Docker, RabbitMQ

Databases & Search: Pinecone, PostgreSQL, Redis, Azure AI Search

EXPERIENCE

Oovacha Software Engineer

March 2025 – Present

- Built **3 autonomous AI agent systems** — clinical query agent, EDC validation engine, and Claude-powered orchestrator — now live across **27 clinical trial sites**, cutting weeks of data reconciliation per study cycle.
- Designed and shipped a message-driven validation pipeline processing **78.6K+ clinical records** against **77 configurable rules** — catching discrepancies in patient data before human reviewers.
- Selected **SQS over direct API calls** to guarantee message durability and decouple processing load from clinical data ingestion; deployed on **AWS ECS Fargate, Aurora, SQS, S3, Cognito** with RBAC, audit logging, and BDD automation.
- Integrated custom **MCP servers** into the orchestration stack, enabling site managers and doctors to query clinical databases in natural language — replacing multi-step manual lookups.

Mushroom Solutions Software Engineer Intern

March 2024 – March 2025

- Trained deep learning classification models achieving **97.8% accuracy on 15,400+ records** — automating 17 workflows and saving **22 hrs/week** of manual processing.
- Built an intelligent RAG chatbot combining Azure AI Search and FAISS with Redis caching — serving **5,000 queries/day**.
- Shipped Django REST APIs with RBAC to serve ML model inference across 4 internal teams, with end-to-end test automation using Behave BDD.

PROJECTS

- Plum Ops AI** | FastAPI · Claude Haiku · Pinecone · Redis · PostgreSQL · Next.js — Production-grade insurance ops RAG assistant with Redis job queue for Claude API calls, Pinecone vector search, claims triage classifier, PostgreSQL analytics dashboard, and load tested to 2,000+ req/min on cached endpoints. Built as proof-of-work for Plum's AI Automation Engineer role.

github.com/pranavkrishnadanda/plum-ops-ai

- Aether-MCP** | Python · MCP · FastAPI · PostgreSQL · Docker — Enterprise MCP server enabling LLM agents to securely query clinical trial databases with RBAC and full audit logging — built from production experience at Oovacha.

github.com/pranavkrishnadanda/Aether-MCP

EDUCATION

VVIT — B.Tech Computer Science & Engineering (AI & ML)

Nov 2021 – May 2025

Namburu, Andhra Pradesh · CGPA: 7.98 / 10