

Pratik Reddy

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PROFESSIONAL SUMMARY

Data-focused software developer with 4+ years building **AI-ready intelligent systems**. I build the data foundation first — collect, clean, structure, compress, index, retrieve — then layer AI on top, so human teams, management users, and AI agents all work from data that's already clean and structured.

Focused on preparing data for the agentic AI future: systems that consume messy, real-world data and return relationships, actions, and intelligence answers. I use **AI** mainly for **compression** and **surveillance** — turning large, unstructured data into smarter lots, matches, and retrieval units, and observing documents, media, people, and processes into evidence and signals.

PROFESSIONAL EXPERIENCE

Software Developer

Ayotta Infotech

- Built data **search, matching, and retrieval systems** across resume/JD matching and document extraction (**Zapp**), **AI chat and RAG agents** (SLP), and school/education workflow tools — converting messy operational records into clean, searchable, agent-ready data.
- Engineered the data layer with **Python, FastAPI, MongoDB**, and **Milvus DB** on **AWS Lambda, API Gateway**, and **Google APIs** — collection, cleaning, validation, chunking, indexing, and retrieval filters.
- Ran **local AI on NVIDIA GPU servers (Vast.ai)** to generate embeddings powering vector search and semantic matching.
- Applied **AI** for compression *after* the data was clean: **OpenAI Responses API (4o / 4o-mini)** for structured extraction, scoring, resume/JD matching, semantic ranking, and intelligence answers — with **Azure Document Intelligence** pulling page evidence, field validation, and structured fields out of messy PDFs.
- Branched into **surveillance** — people/object detection and LPR-style experiments — widening the data these systems can observe and turn into structured signals.

Feb 2024 – Present

Associate Analyst, Data Science

EOX Vantage

- Built **ETL, RPA**, reporting, and KPO/back-office automation for document-heavy operations using **Python, SQL, Talend, n8n, VBA**, and Excel automation.
- Built task-automation tools and manager dashboards for service-delivery teams — tracking work status, throughput, and operational handoffs.
- Used AI lightly and practically: **GPT-4**-assisted VBA/macro generation, one-button Excel workflows, and faster automation prototyping.
- Automated only where it improved accuracy or saved time — validation, exception handling, OCR/document extraction, reporting logic, and API integration.

Jan 2023 – Feb 2024 · 1 yr 2 mo

Supply Chain Analyst Intern

Just Bake

- Supported security and operations run from a single centralized control centre — monitoring goods movement, stock, and process flow across sites from one point.
- Used **Excel**-based analysis and operational reporting to track inventory, demand, and process gaps and surface issues for faster response.

Feb 2019 – May 2019 · 4 mo

EDUCATION

MBA Indiana University of Pennsylvania	2021
BBA PES University, Bengaluru	2020
Pre-University (PCMB) The Amaatra Academy, Bengaluru	2016
Secondary Education Delhi Public School Bangalore-North	2014

SKILLS

Data Engineering & ETL

Python, SQL, pandas, NumPy, ETL design, data cleaning, validation, reconciliation, Talend, structured JSON extraction

Backend & API Systems

FastAPI, Flask, Node.js, REST APIs, LangServe, Streamlit, React, Next.js, API orchestration

Search, Databases & RAG

MongoDB, Milvus DB, PostgreSQL, MySQL, SQLite, FAISS, ChromaDB, LanceDB, vector search, embeddings, fuzzy matching

AI Agents & Compression

OpenAI Responses API, LangChain, LangGraph, CrewAI, MCP, RAG agents, data compression, surveillance, intelligence answers

Local AI & Embeddings

Ollama, local embeddings, Hugging Face, MLX Whisper, Whisper, Qwen Image, LoRA workflows, SentenceTransformers

Model Hosting & Vision

Vast.ai, NVIDIA GPU servers, inference providers, big image/video models, people/object detection, OpenCV, ffmpeg/ffprobe, yt-dlp, YouTube transcripts

Automation, Cloud & Vision APIs

AWS Lambda, API Gateway, Microsoft/Azure tools, Azure Document Intelligence, Google Sheets/Drive/Gmail APIs, n8n, VBA

PROJECTS

Technical Focus: AI/Data Systems, RAG, Automation & Media

Ongoing

- Built document, information, and multi-collection RAG with private retrieval — Milvus DB, MongoDB, FAISS, ChromaDB, LanceDB, with embeddings, chunking, metadata, and retrieval filters.
- Built resume/JD matching, CV generation, document extraction, semantic similarity, adaptive testing, and email-classification agents on FastAPI, AWS Lambda, OpenAI Responses API, Ollama, LangChain, n8n, and MCP-style data access.
- Ran local AI and hosted inference on Vast.ai GPU servers — Hugging Face model assets, inference providers, MLX Whisper, Qwen Image, local embeddings, and big image/video models.
- Built surveillance and media pipelines — people/object detection and LPR experiments, YouTube/video datasets, ffmpeg/ffprobe metadata, LoRA/face finetuning (Ostris-style AI Toolkit), and AI-assisted video/audio assembly.

CERTIFICATIONS

Azure Cognitive Services Advanced

• Udemy

SQL for Data Analytics

• Udemy

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ETL with Talend L1

• Udemy

Python Programming

• Udemy