

PRATHAM RAJ

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EDUCATION

MVJ College of Engineering, Bangalore, KA

Bachelor Of Engineering In Data Science

2022 – Present

Relevant Courses: Python, Data Structures, Machine Learning, Deep Learning

SKILLS

Library	Numpy, Pandas, Matplotlib, Seaborn, Plotly, TensorFlow, Keras, Scikit-Learn
Technical Skills	Python, C++, Machine Learning, Deep Learning, LLM, Langchain, Fastapi, RAG
Tool	Claude code, Codex, Ollama, Git, Github, HuggingFace

PROJECTS

SuperaXiom Live — [GitHub](#)

- Built a **privacy-first AI research aggregator** with **RAG pipeline** using **FastAPI** and **ChromaDB**, supporting **hybrid inference** — via **Ollama** as well as **cloud-hosted providers** (OpenAI, Anthropic) for accelerated inference.
- Engineered a **serverless backend** deployed on **Modal** with **SSE streaming**, enabling real-time AI responses with zero local compute and sub-second retrieval latency and **100% free-tier** operation via open-weight embedding and LLM models.
- Implemented **semantic Q&A** over ingested papers using **dense vector search** with ChromaDB, allowing users to query paper content in natural language with contextually grounded answers.

Stocxi Live — [GitHub](#)

- Built an **AI-powered stock analysis platform** for Indian retail investors using **NSE/BSE** pipelines, **17 technical indicators**, and **knowledge graphs** spanning sector correlations and macroeconomic signals.
- Engineered an **80/20 deterministic-AI protocol** separating rule-based signals from **LLM reasoning**, delivering **horizon-aware, risk-stratified insights** across conservative, moderate, and aggressive profiles.
- Implemented **SEBI-compliant** output framing with **prompt injection** prevention and survivorship-bias safeguards on a **FastAPI** backend with curated Indian market data sources.

Medo.ai Live — [GitHub](#)

- Built a **privacy-first medical assistant** supporting **hybrid inference** — fully **air-gapped local LLMs** (LLaVA-7B, 20B) for on-device processing and **cloud providers** (OpenAI, Anthropic) for accelerated inference, ensuring **100% data sovereignty**.
- Engineered a **multi-modal analysis pipeline** covering **medical image triage** (wounds, bruises, trauma assessment) and **report OCR** (60%+ confidence) for vital extraction, with a **safety layer** detecting 6 critical emergency categories (cardiac, stroke, etc.).

CERTIFICATION & PARTICIPATION

- IIT Bangalore Innovation Center Hackathon: Got 3rd rank [Github](#).
- Dayanand Sagar Under IEEE B Section Hackathon: Got 3rd rank [Github](#).
- Supervised Machine Learning: Regression and Classification [Coursera](#).

EVENTS & CURRICULARS

- Pehchaan The Street School (Trust): PM Intern [Github](#) *Nov 2023 – Mar 2024 (Remote)*
- Next GenAI Event (Microsoft) [Github](#)