

PRAKYATH CHANDRAN

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WORK EXPERIENCE

Junior AI Developer | Phracta | London

July 2025 – Dec 2025

- Sole AI developer for 3 startup clients; led requirements gathering in client meetings and delivered end-to-end MVPs within 3-4-week cycles
- Built mental health chatbot MVP with compatibility matching using LangChain, OpenAI embeddings, and ChromaDB, implemented Few-Shot prompting for empathetic response generation; delivered for client demo.
- Developed financial analysis tool processing 50+ page institutional data into actionable metrics using RAG pipeline (PDF ingestion, FAISS vector search, GPT-4 synthesis) with FastAPI backend, and achieved <10 second query response
- Tech: Python, FastAPI, LangChain, OpenAI API, Vector DBs (ChromaDB, FAISS), Streamlit, AWS

Data Scientist Intern | HaiX AI | London

Feb 2025 – Jun 2025

- Benchmarked 5+ LLMs (GPT, Claude, Mistral, LLaMA) by deploying models on server and systematically testing prompt strategies (Few-Shot, Chain-of-Thought) across 100+ prompt variations. Identified 10% cost reduction opportunity using Mistral/Claude over GPT-4 for sentiment tasks.
- Built FastAPI endpoints for both open-source (Hugging Face) and proprietary models, integrated RapidAPI to collect brand engagement data from 7 social platforms
- Evaluated multimodal models (GPT-4V, Vertex AI) for extracting brand mentions from video/reels and compared outputs against in-house model using manual scoring framework
- Tech: Python, FastAPI, Azure OpenAI, Hugging Face, Prompt Engineering, SQL, REST APIs, Postman

KEY PROJECTS

Hope Bridge – AI Mental Health Support Platform | **Python, FastAPI, LangChain, ChromaDB, Docker** [Link](#)

- Built multi-model LLM orchestration querying GPT-4, Claude, Gemini in parallel with quality-based response selection, automatic fallback, and per-request cost tracking.
- Implemented A/B testing framework with statistical significance analysis (Welch's t-test) and prompt version control with rollback
- Designed real-time risk assessment engine (0-100 scoring) with crisis detection and automatic resource injection from 50+ country crisis helpline database
- Created observability stack with Prometheus metrics, and Grafana dashboards and deployed via Docker Compose.

Real-time Emergency Sign Language Detection | **Python, TensorFlow, CNN, LSTM, OpenCV, Streamlit** [Link](#)

- Built CNN-LSTM model for detecting emergency sign language gestures in real-time video feed
- Deployed as Streamlit app with OpenCV video processing

Crypto Price Prediction System | **Python, LSTM, SARIMA, Pandas, Streamlit** [Link](#)

- Developed time series forecasting system using SARIMA and LSTM for real-time crypto price prediction
- Built interactive Streamlit dashboard for predictions and visualization

EDUCATION

MSc Applied AI and Data Science (International Merit Scholarship) | Solent University, Southampton

Bachelor of Computer Applications (First Class) | St Joseph's College, Mysore

SKILLS

AI/ML: LangChain, RAG Systems (Hybrid Search, HyDE, Corrective RAG, Reranking), Prompt, LLM Evaluation, Vector Databases (ChromaDB, FAISS, AstraDB), Hugging Face, PyTorch, Transformer Architecture, ML/Data: TensorFlow/Keras, CNN, LSTM, SARIMA, OpenCV, Pandas, NumPy, Scikit-learn, Time Series, NLP

LLMs and Agents: OpenAI API, Claude API, Gemini API, Mistral, Multi-model Orchestration, Agentic AI (Tool Calling, LangGraph, Multi-Agent Systems), A/B Testing, Model Benchmarking, CrewAI, A2A (Agent-to-Agent)

Backend: Python, FastAPI, Streamlit, Docker, AWS EC2, MongoDB, Prometheus, Git, REST APIs,