Thrangborwell Sohlang

Shillong, Meghalaya • +91 6009453430 • thrangsohlang@gmail.com github.com/Thrangsohlang • linkedin.com/in/thrangsohlang

Professional Summary

AI/ML Engineer with hands-on experience delivering production-grade LLM and computer-vision solutions. Skilled in GPT-powered interfaces, real-time object-detection pipelines, and end-to-end RAG systems. Strong foundation in fine-tuning, optimisation, and backend integration with FastAPI & Streamlit.

Technical Skills

- ML/AI: PyTorch, TensorFlow, Hugging Face Transformers, scikit-learn, YOLO, DeepSORT, VGG
- LLM Stack: OpenAI, RAG pipelines, LangChain, AWS Bedrock, AutoGen, CrewAI
- · Model Optimisation: ONNX, TensorRT, OpenVINO
- · Vector DBs: Pinecone, ChromaDB, FAISS
- Data & Infra: SQL, BigQuery, Scrapy, Selenium, Git, Docker, REST APIs
- Deployment: FastAPI, Streamlit, VLLM, Ollama
- · Frontend: HTML, JavaScript, CSS

Projects

GPT-Powered Data Visualisation Tool

Internal Tool

2024

- Built an interface enabling business users to generate SQL queries and visualisations via natural language with GPT-4 + LangChain agents.
- Integrated with a 20+-table custom schema; added LLM-based evaluator validation and robust retry/error recovery.
- Reduced the query-to-report loop by >60%.

Khasi ASR System (Wav2Vec 2.0)

2024

- Developed an ASR model for Khasi (~1 h annotated audio).
- Achieved 22% word-error rate on held-out samples; demonstrated viability for low-resource languages.
- Deployed a real-time transcription demo in Streamlit.

NLP for Personalised Cancer-Treatment Insights

2023

- Trained multiclass classifiers + NER to extract gene-cancer links from PubMed (Kaggle) corpus using NLTK + scikit-learn.
- Reached 93% accuracy; enabled exploration of gene-treatment relationships for precision medicine.

Professional Experience

Al Engineer – Sustainability Economics

Bangalore

Mar 2025 - Present

- Evaluated Google Document AI, AWS Data Automation & Azure Document Intelligence for structured data extraction from PDFs, spreadsheets.
- Designed & prototyped an end-to-end Al-driven ETL pipeline on AWS.
- · Achieved 92% extraction accuracy on a manually annotated sample of 20 documents.
- · Orchestrated AI Agents using LangGraph, CrewAI & AutoGen and implemented monitoring dashboards (CloudWatch).

AI/ML Developer - Sarjen Systems (Client of DataLabs)

Ahmedabad

Aug 2024 - Feb 2025

- Enhanced an internal RAG system for document search across PDFs/flowcharts and deployed company-wide.
- Built custom extractors enabling structured search over complex flow-based documents.
- Engineered a real-time golf-ball tracking pipeline (POC) with YOLO + DeepSORT; ~1 min latency on 30-s 120 FPS footage.
- · Conducted R&D and fused cutting-edge deep learning and CV methods from research to enhance golf-ball tracking.

Data Scientist Associate - DataLabs Al

Jul 2024 - Feb 2025

- Developed a web-scraping pipeline processing ~20 GB of marketing data with Scrapy + Selenium.
- Implemented data-normalisation & outlier filtering, reducing manual cleaning by 45%.
- · Prototyped a GPT assistant for structured sales-data queries.

Data Science Intern – Response Informatics Ltd.

Oct 2023 - Jun 2024

- Co-developed an internal NLP dashboard that automated SQL generation with live visualisation in Streamlit.
- · Conducted EDA and model experiments to support stakeholder analytics workflows.

Education

M.Sc. Physics - IIT Hyderabad

Aug 2022

- Project: modelled gamma-ray-burst afterglows; AIC/BIC favoured broken power-law.
- Key courses: Computational Physics, Data Science for Astronomy.

B.Sc. Physics – St. Anthony's College, Shillong Oct 2020

Awards & Languages

- Scholarship: Inspire Scholarship for Higher Education (2017–2022)
- Languages: Khasi (native) · English (fluent)

Hyderabad

Hyderabad