

PROFESSIONAL SUMMARY

AI/ML Engineer with expertise in large language models, knowledge graph systems, and full-stack development. Proven track record in building production AI systems including legal document analysis pipelines and e-commerce automation platforms. Strong foundation in machine learning, computer vision, and API development with experience deploying scalable cloud-based solutions.

SKILLS

Languages: Python (Advanced), C++, SQL
ML/AI: LangChain, OpenAI API, LLM Integration, TensorFlow, PyTorch, Scikit-learn, NLP
Databases: Neo4j, MongoDB, Graph Databases, Cypher
CV: MediaPipe, OpenCV
Backend: FastAPI, Flask, RESTful APIs, Async Programming
Data: Pandas, NumPy, Matplotlib, Seaborn
Cloud/DevOps: Google Cloud Platform, Modal.com, Docker, Cloud Run, Cloud Scheduler
Tools: Git, Linux, Streamlit

PROFESSIONAL EXPERIENCE

AI/ML Engineer | VaconAI
Remote Sept 2025 - Present

- Developed AI-powered legal knowledge graph system processing deposition transcripts using GPT-4 and Neo4j, extracting 9 entity types and 35+ relationship types from unstructured legal text
- Engineered hybrid entity resolution pipeline combining normalization algorithms and LLM-based matching for intelligent cross-document deduplication with confidence scoring
- Implemented parallel async LLM processing with rate limiting achieving 15x performance improvement for batch operations handling 2,200+ lines of complex JSON transformation
- Architected multi-tenant Neo4j graph schema with case isolation and deployed serverless FastAPI inference pipeline on Modal.com with automatic scaling
- Built complete PayPal dispute automation system for e-commerce platform with webhook processing, integrated payment handling across multiple services
- Developed inventory comparison microservice from scratch with batch processing, GCP integration, and Streamlit UI for real-time inventory management serving multiple shops
- Integrated OpenAI APIs, Shopify APIs, and payment processing systems with comprehensive error handling, retry logic, and rate limiting for production stability

Full Stack Developer | Freelance
Remote 2024 - Sept 2025

- Developed end-to-end medical transport management system (CETransport) for Colin Enterprises serving 500+ daily trips
- Built responsive React frontend with real-time trip tracking, interactive Google Maps integration, and mobile-optimized design
- Implemented FastAPI backend with automated SMS notifications using Twilio, CSV bulk import, and comprehensive reporting dashboard
- Designed client and employee management systems with advanced filtering, pagination, and bulk operations
- Delivered private production deployment for client's internal operations with invite-only access control

TECHNICAL EXPERIENCE

GestuNova | Computer Vision Project
Lead Developer Sept 2023 - June 2024

- Developed a Linux-based application that maps hand gestures to system commands using MediaPipe's hand tracking capabilities
- Created an intuitive GUI for users to customize and bind specific gestures to system commands and keyboard shortcuts
- Implemented system integration layer to execute commands based on recognized gestures
- Built robust event handling system to manage gesture detection events and command execution

Lahore Property Analysis | Data Science Project
Developer

Nov 2024

- Developed data processing system for standardizing property metrics across listings
- Created statistical and spatial analysis pipeline using Python, Matplotlib and Seaborn
- Implemented geocoding system for location-based market segmentation
- Generated detailed visualizations and reports for property valuation patterns

UK Crime Data Analysis | Big Data Project
Developer

Oct 2024

- Processed millions of street-level crime records across multiple UK counties using Apache Spark
- Implemented SQL-based analysis pipelines for efficient data processing
- Developed automated county mapping and jurisdiction standardization
- Created visualization system for crime trends and patterns analysis

Hotel Review Sentiment Analysis | NLP Project
Developer

Jan 2024 - Mar 2024

- Developed sentiment analysis pipeline using Python and NLTK for processing hotel reviews
- Implemented robust data cleaning algorithms for handling inconsistent review formats
- Created word cloud visualizations for theme identification in customer feedback
- Generated granular ratings system for specific service aspects analysis

Chess Blunder Detection | Python Project
Developer

Feb 2023 - Apr 2023

- Built a script for analyzing chess games using Stockfish engine integration
- Implemented recursive algorithm for variation tree analysis and blunder detection
- Developed automated analysis file generation for critical positions
- Created tournament history processing pipeline for pattern identification

EDUCATION

Punjab University College of Information Technology (PUCIT)

2020 - 2024

- B.S. Computer Science
- Key Courses: Machine Learning, Computer Vision

ACTIVITIES

- Research Paper: Comparative Analysis of Hand Gesture Recognition Models (2024)
- Content Writer: FCIT Information and Media Society (FIMS) (2022)
- Participant: PUcon Coding Competition (2023), Rookie Game Jam (2023)