

# M. KAIF KOHARI

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London, UK

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## PROFILE SUMMARY

ML Engineer with 3+ years of experience, often as the founding ML engineer at growing and scaling teams. Proven track record of translating cutting-edge research into real world, robust and scalable solutions for commercial products. Passionate about LLM fine-tuning, LLM reasoning, Multi-Agent systems and MLOps.

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## KEY SKILLS

Python   Javascript   C++	CI/CD automation	AWS
Machine Learning (Pytorch, Tensorflow)	ML infra (Docker, Kubernetes, kubeflow)	REST APIs
Agentic AI	MLflow, Data Version Control	Linux
Dev (Django, Flask)	Advanced ETL and Data Pipelines	SQL Databases
		Vector retrieval Databases

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## PROFESSIONAL EXPERIENCE

**Syntagma Labs, London**

**MAY 2024 - NOV 2024**

**Machine Learning Research Intern**

- Built ML algorithms for crypto transaction analysis to support AML investigations, using Pytorch and networkx to predict illicit transactions and detect anomalies with 97% accuracy.
- Conducted AI-driven research on terrorism financing, scam transactions with bitcoins using gradient boosting, LSTMs, and graph data visualization, providing insights into crypto risks

**ZCLAP, Texas**

**AUG 2023 - DEC 2023**

**Machine Learning Engineer**

- Deployed multiple advanced AI systems like video AI meeting assistant, official government document extractor, video summarizer using Large Language models, GANs and SOTA hugging-face stable diffusion models for text to image generation.
- Successfully commercialized these AI solutions, leading to their sales on the AWS Marketplace, enhancing client engagement and revenue streams for the company

**Vsualthree60**

**AUG 2022 - NOV 2022**

**Computer Vision Intern**

- Collaborated on the development of Computer Vision models with OpenCV and Yolo to precisely perform emotion detection, people count, age/gender detection in videoframes, achieving seamless synchronization.
- Models were successfully integrated in CCTV cams across various supermarkets.

**Tungsten Studios**

**JUN 2021 - JULY 2021**

**Data science Intern**

- Created an algorithm to automate detection of elements (doors, windows) via pixel intensity tools with Python in architectural drawings, accelerating layout mapping by 40%.

**ML Intern**

- Executed critical safety Computer Vision systems, including Driver facial Drowsiness Detection system, an automated license plate recognition system for identifying vehicles violating traffic laws for a government NGO

**PROJECTS****Finance Lab – Agentic research assistant for hedge funds and analysts**

**Demo** - <http://financelab.click:8000/>

- Engineered an Agentic RAG pipeline with langchain and advanced retrieval (rerankers, Qdrant vector DB and a finance-finetuned LLM) that extracts and calculates KPIs, earnings, etc from enormous SEC filings like 10-Ks, 10-Qs in seconds, cutting research time by ~90%
- Built a Dockerized FastAPI app and deployed on AWS ECS Fargate enabling natural language querying and structured outputs for analysts, traders, and portfolio managers.

**Favourite Video Game Describer**

<https://pht5symp5h.us-east-1.awsapprunner.com/>

- A fun agent that transforms your story descriptions into personalized game recommendations by analyzing gameplay and genres using MCP tool calling functionality and GPT 4o.
- A Dockerized Flask app, deployed on AWS cloud App Runner for scalability.

**Pneumonia Diagnosis with Convolutional Neural Networks**

<https://github.com/Kaif10/Pneumonia-Diagnosis>

- Created and trained 3 different CNN architectures with Keras achieving 90% sensitivity and 85% specificity for X-ray pneumonia detection, leveraging transfer learning and finetuning methods to handle a large, imbalanced medical dataset.

**Emotion Detection on twitter profiles**

[https://github.com/Kaif10/Emotion\\_Detection\\_in\\_Tweets](https://github.com/Kaif10/Emotion_Detection_in_Tweets)

- Trained a bi-directional LSTM network to do sentiment analysis on COVID-era Twitter data using BeautifulSoup and Selenium for real-time scraping of tweets from Twitter.
- Performed comprehensive ETL processes using pandas, NLTK, including data cleaning, transformation, and structuring, to convert raw scraped tweets into a high-quality dataset optimized for ML model training.

**EDUCATION & CERTIFICATIONS****Bachelor of Engineering (2023)**

University of Mumbai, SFIT (8.0/10)

**Masters in Applied Data science (2025)**

University of London (Distinction)

Research - Spatiotemporal Action Recognition in Videos Using ConvLSTM with Attention: A Comparative Analysis and Implementation

**COURSES & CERTIFICATIONS**

- Advanced Computer Vision (Deeplearning.ai)
- Cloud Computing-AWS (IBM)
- Agile And Scrum (IBM)

**EXTRACURRICULAR ACTIVITIES****AI/ML Intern (Hackathon Selection)**

Selected at DJSCE college hackathon for an AI internship with an NGO, applying ML to impactful social causes.

**Treasurer and Technical Head, Computer Society of India (CSI)**

Led a team of 26 in organizing workshops on data science, communication, and leadership. Hosted a club talk show, interviewing prominent tech professionals. - The CSI Show

**Machine Learning Content Creator**

Published ML content for Medium, Orchids International School and UpGrad KnowledgeHut simplifying complex tech topics.