

M. KAIF KOHARI

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London, UK

PROFILE SUMMARY

AI/ML Engineer with 3+ years of experience building scalable AI architectures for commercial products. Specializing in Generative AI, MLOps, and Computer Vision, I led end-to-end deployments on various platforms to boost monetization and scaling. Passionate about creating responsible, high-impact AI systems.

KEY SKILLS

Python Javascript C++	Computer Vision	NLP architectures- (Transformers, BERT)
Machine Learning (Pytorch, Keras)	MLOPS Workflows (Docker, Kubernetes, kubeflow)	REST APIs
Generative AI (LLMs)	ETL & Data pipelines	Linux
Dev (Django, Flask)	AWS ML	SQL Databases

PROFESSIONAL EXPERIENCE

Syntagma Labs, London

MAY 2024 - NOV 2024

Machine Learning Intern

- Built an ML algorithm for crypto transaction analysis to support AML investigations, using Pytorch to predict illicit transactions and detect anomalies with 97% accuracy.
- Conducted AI-driven research on terrorism financing and scam transactions with bitcoins using LLM, machine-vision, and data visualization, providing critical insights into crypto risks

ZCLAP, Texas

AUG 2023 - DEC 2023

Machine Learning Engineer

- Deployed advanced AI systems like video AI meeting assistant, official government document extractor, video summarizer using Large Language models, GANs and hugging-face stable diffusion models for 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 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 analyze architectural drawings utilizing Python's 'getpixel' function to identify key elements like doors, windows, etc of rooms based on pixel intensity.
- Engineered an automated model capable of mapping out all the important architectural features before pushing into deployment.

ML Intern

- Supported a government NGO by developing AI models with Computer Vision architectures aimed at reducing road accidents.
- Contributed to the creation of critical safety systems, including a Driver facial Drowsiness Detection system, an automated license plate recognition system for identifying vehicles violating traffic laws.

PROJECTS**Favourite Video Game Describer**

<https://pht5sypm5h.us-east-1.awsapprunner.com/>

- A fun agent that transforms your story descriptions into personalized recommendations by analyzing gameplay and genre nuances using RAG functionality.
- Integrates GPT-4o and the RAWG gaming API, built on Flask, containerized with Docker and deployed on AWS cloud App Runner for scalability.

AI Workflow Automation with ChatGPT API

<https://github.com/Kaif10/Doing-Stuff-with-ChatGPT>

- Built Python tools with OpenAI's API to automate tasks like document summarization, customer support, math tutor agent, reducing manual processing.
- Optimized prompt engineering, enabling scalable cloud deployment and enhancing MLOps capabilities in real-world NLP tasks.

Pneumonia Diagnosis on X-rays with CNNs

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

- Created and trained 3 different CNN architectures with tensorflow/Keras achieving 90% sensitivity and 85% specificity for X-ray pneumonia detection, leveraging transfer learning and finetuning methods to handle large, imbalanced datasets.
- Applied expertise in model tuning and healthcare AI, improving diagnostic accuracy in resource-limited settings.

Emotion Detection from twitter profiles

https://github.com/Kaif10/Emotion_Detection_in_Tweets

- Built a bi-directional LSTM neural net to do sentiment analysis on COVID-era Twitter data using BeautifulSoup and Selenium for real-time scraping of tweets .
- Performed comprehensive ETL processes, 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 (2019-2023)**

University of Mumbai, SFIT (8.0/10)

Masters in Applied Data science (2023-2024)

Royal Holloway, University of London
(Distinction)

- Implemented Video Action-Recognition for Master's thesis, using (ResNet-152)CNN, LSTM, and Attention-Mechanism for crowd surveillance, achieving 97% accuracy.

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

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