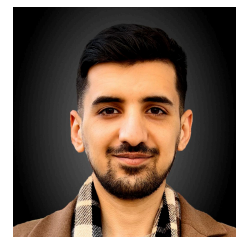


Omer Khan Jadoon

Generative AI Engineer

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Results-driven Generative AI Engineer with 3+ years of profound experience in artificial intelligence, data science and machine learning. Proficient in Python, Vector DBs, LLM Frameworks and Cloud Deployments.



Technical Skills

Programming Languages : Python, JavaScript, C++,Java, SQL,.

Frameworks & Tools: TensorFlow, PyTorch, LangChain, LlamaIndex, Streamlit, Flask, Django.

Generative AI Technologies: Open-source and paid LLM models (Llama3, Mistral, OpenAI, Google Gemini Pro,Perplexity), Multimodal LLMs, Audio Language Models, Video Language Models (VLMs), Diffusion Models, GANs.

Vector Databases: ChromaDB, Pinecone

Database Management: Experience with Cosmos DB in production environments, Mysql, Mongoddb, PostgreSQL, Firebase

Deployment Platforms: Azure Ai, AWS (EC2, Lambda), Azure Functions, Hugging Face Spaces

AI Techniques: Fine-tuning with custom data, Retrieval Augmented Generation (RAG), vector embedding, neural network optimization, MLOPS, Dockers, Kubenetes, prompt engineering and optimization.

Traditional AI: Computer Vision, NLP, Machine Learning, Deep Learning, DNN.

Project Management Tools: Notion, Jira, Confluence

Soft Skills: Analytical thinking, problem-solving, teamwork, effective communication.

Experience/Projects

Amidiro GmbH

December 2023 – Present

Generative AI & Machine Learning Consultant

Aachen, Germany

- Lead the Development of Amidiro Audio Assistant which helps businesses/hospitals to provide support and do marketing and support calls using LLMs and which **increase the lead conversion rate by 20% , and reduce the call handling time by 15%**.
- Fine tuned YOLO v9 on FireNet Dataset and Developed a pipeline to generate Safety & Maintenance Report using LLM.
- Developed a data pipeline to extract important information from Company register (Handelsregister) using OpenAI ChatGPT and store it to AWS DynamoDB.
- Developed and conducted training regarding prompt engineering and fine tuning of LLMs.
- Build a Retrieval-augmented generation (RAG) pipeline for Amidiro Internal Knowledgebase to help consultants.
- Developed Basic and Advance Training about Prompt Engineering and RAG focusing on latest research.
- Knowledge retrieval from recent Research Papers and integration into the Knowledgebase.

Remote Native GmbH

April 2023 – October 2023

Werkstudent Artificial Intelligence and Data Science

Munich, Germany

- Generated Synthetic dataset using LLMs from **~5 Million** e-commerce dataset, to train custom BERT model for Named Entity Relations (NER) task.
- Finetuned Segment Anything model to do **image segmentation** and remove background from images. Also created an interface for this in streamlit.
- Performed Image Analysis by extracting segments using finetuned Segment Anything model.
- Developed a Restful API service for **converting video of Product to 3D objects**.
- Created MLOPs pipeline in Azure Databricks to Extract Transform Load (ETL), Model Training and Deployment.
- Developed a Virtual tryon Application Using Computer Vision for different clothes and color variations of product.

Advance Telecom Services (ATS)

July 2022 – April 2023

Artificial Intelligence Engineer

Remote, USA

- Set up fine-tuning and evaluation pipelines on Microsoft Azure.
- Trained Custom Computer Vision and NLP Models and Deployed them on Azure Cloud.
- Developed an Advanced Recommendation System for car dealership stores.
- Developed Generative AI Training and conducted training sessions with universities.
- Worked on Data Pipelines, ETL, Batch Scoring, Stream Processing, Visualization using Power BI.

National Radio & Telecommunication Corporation (NRTC)

October 2021 – June 2022

Assistant Manager Artificial Intelligence Lab

Haripur, Pakistan

- Build the AI and BigData Lab with a private cloud for KPK Police, Pakistan.
- Worked on Development of OSINT for Social Media and Criminals Analysis.
- Trained an AI based Forecasting AI to forecast any possible crime in an area.
- Build Interactive Dashboards in Qlik Sense and a custom ETL system for Telecommunication Data.
- Developed Link Analysis Platform to analyze the activities of Terrorist Groups in Pakistan.
- Development of Facial Recognition System (FRS), Automatic Number Plate Recognition System.
- Lead a team of 5 People

Jadoon Technologies Private Limited (JTPL)

Nov 2020 – OCT 2021

Lead Software Engineer

Haripur, Pakistan

- Developed Cross Platform Mobile and web apps using Next JS, React JS, ASP.NET as well as Django.
- Web Scraping, Data Analytics, Exploratory Data Analysis.
- Data Ingestion, Training ML and DL based models for visual analysis, emotion detection, and road safety.

Projects/Awards & Achievements

Safira.AI: AI based Ecommerce Platform | LLMs, Image Analysis, Segmentation, Azure AI April 2023 - Sep 2023

Product Recommendation and Search: Image based Search | Collaborative Filtering, Siamese network Jan 2023 - Mar 2023

Material Defect Detection: Defects in Construction Materials | Deep Learning Oct 2022 - Dec 2022

Brain Tumor Detection: Segmentation of Infected Area | U-NET, Segmentation, Azure AI July 2022 - Sep 2022

Facial Recognition System & ANPR: Catch People on RedBook with various city cameras | YOLO-Face Jan 2022 - May 2022

Criminal Investigation System (CIS): Terrorists Activity Monitoring and Forecasting | Django, Qlik Sense Nov 2021 - April 2022

Cow Diseases Prediction: Computer Vision based Skin Diseases Predictions | CNN, Transfer Learning Nov 2020 - Feb 2021

Detection of Osteoarthritis in Knee: Detect Severity according to KL Scale | ResNET, Fine Tuning Jan 2020 - May 2020

Education

Friedrich-Alexander-Universität (FAU)

OCT 2022 – Present

Master of Science in Artificial Intelligence

Erlangen, Germany

The University of Haripur

SEP 2016 – OCT 2020

Bachelors of Science in Software Engineering

Haripur, Pakistan