

SAIM KHALID

AI Engineer | Deep Learning | Generative AI

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I'm a highly motivated AI engineer with three years of experience in Computer Vision, Generative AI, Natural Language Processing, and working in production environments. With proven success in both independent and team settings, I'm eager to contribute to innovative AI projects.

EDUCATION

Masters in Computer Science (MSCS). PMAS Arid Agriculture University

Sep 2022

Bachelors in Computer Science (BSCS). COMSATS University

Jul 2020

EXPERIENCE

Techtronix Corp.

June 2025 - Present

AI Engineer

- Built a LangGraph-based chatbot using Mistral LLM to convert natural language queries into MongoDB queries with ChromaDB for semantic retrieval.

Self Employed

Oct 2024 - May 2025

AI Engineer

- Developed a handwriting OCR pipeline using Qwen2 VLM, deployed via FastAPI & MLflow, with OpenAI-powered prompt engineering and NER for structured text extraction.
- Vision Transformer for Heart Xray Image Classification using transfer learning.

iOPTIME Pvt. Limited.

Nov 2022-Aug 2024

AI Engineer

- Fine-tuned GPT-3.5 Turbo with RAG and Langchain for product inquiries in e-commerce.
- Implemented LLAMA 2/3 with RAG via Langchain for audit report analysis.
- Fine-tuned GPT-3.5 for healthcare assistance in a medical chatbot, Deployed to local server using Fast API and Docker
- Gained insights into Zimbabwe's healthcare challenges and explored AI solutions during a business tour.
- Built an OCR system for South African and Zimbabwean IDs and passports.
- Enhanced entity extraction from OCR Strings using OpenAI for Named Entity Recognition (NER). Deployed on a Local server using Docker and Fast API.
- Developed a counting app to count objects in an Image using YOLOv8 and OpenCV. The Model was deployed on AWS using Fast API and Docker.
- Developed a Texas Hold'em card App with object detection using YOLOv5, Deployment on Android and iOS
- Deployed Arc Face with Media Pipe Face Mesh on Local Server using Django, NGNIX, OpenCV and Docker for face recognition in Zimbabwe.
- Implemented advanced face liveness detection using OpenCV and Python.
- Vehicle Trajectory Analysis using DeepSORT and YOLO, deployed using FastAPI on AWS EC2
- Nails Segmentation for nail polish design deployed in Android and iOS
- Fine tuned and Deployed GPT for e-commerce product recommendation
- Causal Inference and Learning for Road Accident Analysis

BXTrack Solutions

Jul 2021 - Aug 2022

Junior ML Engineer

- Developed and deployed a real-time number plate detection system using YOLOv4, achieving 93% accuracy and integrating OCR for text extraction.
- Built NLP pipelines using spaCy and RoBERTa for text classification and entity extraction, and deployed them via REST APIs using Django for scalable application integration.

PUBLICATIONS

Small Pest Detection in Real Time using Deep Learning Object Detection

Sustainability, 2023

CERTIFICATIONS & COURSES

Python for Data Science, AI & Development

Nov 2021

Generative AI with Large Language Models

Feb 2024

Machine Learning Operations (MLOps): Getting Started

Dec 2023

Introduction to On Device AI

Mar 2024

SKILLS

Artificial Intelligence, Machine Learning, Python, Deep Learning, MLOps, Automation, PyTorch, Tensorflow, LLMs, AI Agents, Mlflow, CI/CD, Git, Computer Vision, Natural Language Processing (NLP), Docker, AWS, Langchain, Sagemaker, n8n, FAST API, Lambda, OpenAi, OpenCV, Object Detection, Linux, CUDA, Langchain, VectorDB, ChromaDB, XAI, MongoDB, Langgraph

PROFESSIONAL PROFILES

- aidevsaim.com
- [Github](#)
- [Linkedin](#)