

Khalid Karim

AI Engineer — Beirut, Lebanon

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Professional Summary

Experienced AI Engineer with a strong track record of building production-grade machine learning systems, from data engineering and model training to deployment and monitoring. Skilled in both research prototyping and scalable MLOps practices. Proven ability to lead cross-functional teams and deliver business impact.

Technical Skills

NoSQL (MongoDB), Pandas, TensorFlow, Hugging Face Transformers, Computer Vision (YOLO, Detectron2), scikit-learn, Tableau, MLflow, Anomaly Detection, Kubernetes, Azure ML, Reinforcement Learning

Professional Experience

Senior AI Engineer — AIWorks (1 yrs)

- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.
- Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.

Deep Learning Engineer — DataForge (7 yrs)

- Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
- Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.
- Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.

Selected Projects

- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
- Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.

Education

BSc in Computer Engineering — University of Science, 2016

Languages

Arabic (Native), English (Fluent)

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