

Khalid Nassar

Deep Learning Engineer — Riyadh, Saudi Arabia

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Professional Summary

Experienced Deep Learning 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

CUDA, Spark, Pandas, Docker, AutoML, Kubernetes, Anomaly Detection, Time Series

Professional Experience

Deep Learning Engineer — DataForge (4 yrs)

- Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
- Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.
- Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.
- Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.

MLOps Engineer — AIWorks (3 yrs)

- Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.
- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.
- Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.

Selected Projects

- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.
- Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.
- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.

Education

MSc in Computer Science, Machine Learning Track — University of Technology, 2019

Certifications

- AWS Certified Machine Learning – Specialty
- Google Cloud Professional Data Engineer

Languages

Arabic (Native), English (Fluent)

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