Hana Moussa

Machine Learning Engineer — Riyadh, Saudi Arabia
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Professional Summary

Experienced Machine 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

PyTorch, Data Visualization (Matplotlib/Seaborn), AutoML, Tableau, AWS (S3, EC2, SageMaker), Kubernetes, NumPy, GCP (BigQuery)

Professional Experience

NLP Engineer — SmartML (1 yrs)
• Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
• Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
• Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.

Computer Vision Engineer — InnoAI Labs (1 yrs)
• Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
• Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.

AI Engineer — DataForge (1 yrs)
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
• Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.
• Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.

Selected Projects

• Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.
• Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.

Education

BSc in Computer Science — National University, 2014

Certifications

• AWS Certified Machine Learning – Specialty

Languages

Arabic (Native), English (Fluent)

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