Maya Mahmoud

Machine Learning Engineer — Dubai, UAE
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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

API Development (FastAPI), Hugging Face Transformers, Anomaly Detection, Linux, OpenCV, Time Series, Python, scikit-learn, CUDA, Kafka, Azure ML

Professional Experience

Computer Vision Engineer — AIWorks (1 yrs)
• Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
• Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
• 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%.

Senior AI Engineer — DataForge (1 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%.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.

MLOps Engineer — InnoAI Labs (1 yrs)
• Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
• 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.

Selected Projects

• 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 Engineering — University of Science, 2016

Certifications

• Coursera: Deep Learning Specialization

Languages

Arabic (Native), French (Conversational)

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