Sofia Alami

Machine Learning Engineer — Remote
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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

SQL, Python, Data Visualization (Matplotlib/Seaborn), Azure ML, Keras, NoSQL (MongoDB), AutoML, Linux, NumPy, Computer Vision (YOLO, Detectron2), CUDA, TensorFlow

Professional Experience

NLP Engineer — DeepSystems (1 yrs)
• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
• Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.

Machine Learning Engineer — AIWorks (3 yrs)
• Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
• Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.

NLP Engineer — InnoAI Labs (3 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%.
• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.

Selected Projects

• 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%.

Education

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

Certifications

• Certified Kubernetes Application Developer (CKAD)
• Coursera: Deep Learning Specialization

Languages

English (Fluent), Arabic (Native)