Liam Sabbagh

ML Researcher — Riyadh, Saudi Arabia
Email: liam.sabbagh29@example.com | Phone: +966575161951

Professional Summary

Experienced ML Researcher 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

Data Visualization (Matplotlib/Seaborn), Azure ML, TensorFlow, Tableau, Reinforcement Learning, Linux, NumPy, MLflow, AutoML, AWS (S3, EC2, SageMaker)

Professional Experience

Deep Learning Engineer — InnoAI Labs (5 yrs)
• Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
• Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.

AI Engineer — Nova Analytics (2 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%.
• Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
• Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.

Deep Learning Engineer — InnoAI Labs (2 yrs)
• Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
• Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
• Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.

AI Engineer — CloudScale (1 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.
• Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.

Selected Projects

• 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.

• 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.

Education

BSc in Computer Science — National University, 2014

Languages

Arabic (Native), French (Conversational)

Generated sample resume — 2025-09-30