

Talal Alqadi

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SUMMARY

Machine learning professional with 3+ years of experience, currently pursuing an MSc in Computer Science. Skilled in developing and deploying machine learning models, orchestrating automated pipelines, and managing end-to-end machine learning lifecycle. Proven record of collaborating with teams to devise solutions that minimize costs and optimize performance.

TECHNICAL SKILLS

Programming Languages:	Python, R, C#
Machine Learning Tools:	Pytorch, Tensorflow, Spacy, NLTK, Scikit-learn
Web Development:	REST API, FastAPI, Flask
Database/Storage:	Snowflake, MongoDB, NoSQL
DevOps Tools:	AWS (SageMaker, MWAA, Glue, Lambda, Fargate, EC2), Docker, Git

EXPERIENCE

2021 – 2023

Involve AI

Santa Monica, CA

Sr. Machine Learning Engineer | 2022 – 2023

- Created and maintained machine learning models for a churn early warning system empowering clients to proactively identify risk, reduce churn, and capitalize on upsell opportunities to increase client revenue by an average of 32%
- Developed a custom NER model generalized across multiple domains, eliminating the need for customer-specific models, reducing costs by 70% across computing, training, and labeling, improving F1 validation scores by 50%, and reducing false negatives by 2x
- Designed and developed a scalable cloud-based LLM AI sales assistant integrated with internet search, using AWS CDK, FastAPI, and OpenAI GPT-3, ensuring optimal security, scalability, and redundancy
- Established a CI/CD pipeline with automated testing, building & Docker deployment to AWS ECS Fargate
- Utilized AWS CloudFormation for programmatic creation and reusability, accelerating feature delivery to consistent weekly releases, and reduced production issues by 10%

Data Scientist | 2021 – 2022

- Developed and managed an automated ML pipeline using AWS and Spacy for NER, enabling dynamic model retraining and improved performance through active learning and drift detection
- Led a comprehensive refactor of back-end code used by Machine Learning and Python engineers into a single package using AWS Code Artifact, accelerating dashboard delivery to 1 hour down from 2+ days, by significantly reducing error incidence
- Optimized data analysis and presentation processes by creating a reusable template and end-to-end process guide to reduced lead-time 7 days to 3, providing more efficient service to pilots and customers
- Streamlined developer workflow by implementing an automated metric tracking system using Amazon MWAA and Google Sheets' API, reducing work hours by 7 hours per engineer per week

2019 – 2020

Machine Learning for Social Sciences Lab at UCSD

La Jolla, CA

Research Assistant

- Collaborated in the development of NESSDate to produce a multilingual and cross-domain LSTM network for tagging and normalizing temporal expressions, resulting in co-authoring of 2 upcoming publications
- Executed scraping of petabytes of data from the common crawl, parallelized by launching AWS EC2 instances

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science in Computer Science with Specialization in Machine Learning (expected 2024)

University of California, San Diego

La Jolla, CA

Bachelor of Science in Cognitive Science with Specialization in Machine Learning and Neural Computation