

Talal Al Qadi

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SUMMARY

Innovative machine learning professional with 3+ years of experience currently working towards a Master of Science in Computer Science. Adept at conducting intensive research within machine learning spaces to chart alternative paths, improving processes and driving technology advancements forward. Strong history of collaboration with team members to create solutions that reduce costs and optimize performance.

TECHNICAL SKILLS

Python
Pytorch
NoSQL

AWS Cloud
Tensorflow
Docker

Spacy
C#
ELK Stack

Snowflake
R
Git

EXPERIENCE

2021 – 2023

Involve AI

Santa Monica, CA

Head of Machine Learning

- 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
 - Increased client revenue by an average of 32%
- Developed a custom NER model generalized across multiple domains, eliminating the need for customer-specific models
 - Reduced costs by 70% across computing, training, and labeling, improved F1 validation scores by 50%, and reduced false negatives by 2x
- Designed and developed a scalable cloud-based LLM AI sales assistant integrated with internet search
 - Used AWS CDK, FastAPI, and OpenAI GPT-3, supporting dynamic deployment environments and interactive staging for precise version control
- Established a CI/CD pipeline with automated testing, building & Docker deployment to AWS ECS Fargate
 - Utilized AWS CloudFormation for programmatic creation and reusability
 - Accelerated feature delivery to consistent weekly releases, and reduced production issues by 10%

Data Scientist

- Led a comprehensive refactor of back-end code used by Machine Learning and Python engineers into a single package using AWS Code Artifact.
 - Accelerated dashboard delivery to 1 hour down from 2+ days, by significantly reducing error incidence
- Developed and managed an automated ML pipeline using AWS services and Spacy for NER, enabling dynamic model retraining and improved performance through active learning and drift detection
- Optimized data analysis and presentation processes by creating a reusable template and end-to-end process guide.
 - Reduced lead-time to 3 days down from 7, providing faster and more efficient service to all our pilots and customers
- Streamlined developer workflow by implementing an automated metric tracking system using Amazon MWAA and Google Sheets' API
 - Reduced 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 by conducting research and offering strategic contributions to produce a multilingual and cross-domain LSTM network for tagging and normalizing temporal expressions. Co-author on 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 (2020)