TALAL AL QADI

San Diego, CA ❖ taq.alqadi@gmail.com
talqadi.com ❖ github.com/talqadi7 ❖ linkedin.com/in/talqadi7

Languages: Python, R, NoSQL, C#
Frameworks & Tools: AWS Cloud, Tensorflow, Spacy, Regex, Git, Docker, ELK Stack

WORK EXPERIENCE

Involve AI, *Santa Monica, CA*   Dec. 2021 – Present
Head of AI
- ❖ Initiated and executed a comprehensive refactor of back-end code used by Machine Learning and Python engineers into a single package, accelerating dashboard delivery from a minimum of 2 days to just 1 hour. Employed state-of-the-art methods to expedite the entire pipeline and documented all processes to facilitate maintenance and future improvements.
- ❖ Led performance tracking and improvements for NLP and Regression Models; boosted NER model's F1 validation score by 50% and reduced false negatives by 2x through hyperparameter tuning and custom pre-processing methods.
- ❖ Cut computing, training, and labeling costs by 70% by creating a generalized NER model across multiple domains, eliminating the need for custom trained models.
- ❖ Built an automated auto-train pipeline that performed continuous inference on new data, triggered labeling for data drift and low model confidence, and facilitated iterative model training and deployment.
- ❖ Developed and deployed a containerized FastAPI application on AWS Fargate using Docker for an LLM model, enabling secure internet query capability. Utilized AWS CloudFormation for programmatic creation and reusability.
- ❖ Streamlined developer workflow, reducing workload by 7 hours per engineer per week, by implementing an automated metric tracking system using Airflow and Google Sheets' API.
- ❖ Enhanced the performance of the in-house regression model by 30% across all datasets, through a custom imputation method for a null-safe pipeline.
- ❖ Optimized data analysis and presentation process, reducing lead-time from 7 days to 3 days, by creating a reusable template and end-to-end process guide for other data scientists.

Qualomics Inc., *San Diego, CA*   Feb. 2019 – Oct. 2020
Data Analyst
Implemented an online searchable and interactive dashboard using Elasticsearch, Kibana, and Logstash.
- ❖ Created a dockerized pipeline that extracts and aggregates data from various FDA medical device databases.
- ❖ Parsed PDF text files using Tika, and implemented regex patterns to extract data to improve the existing databases.

Machine Learning for Social Sciences Lab at UCSD, *La Jolla, CA*   Jul. 2019 – Sep. 2020
Research Assistant
Conducted a wide range of tasks including data entry, web scraping, paper or package replications, and literature review. Co-author on 2 upcoming publications.
- ❖ Worked on NESSDate, a multilingual and cross-domain LSTM network tasked with tagging and normalizing temporal expressions.
- ❖ Scraped petabytes of data from the common crawl, parallelized by launching multiple AWS EC2 instances.
- ❖ Replicated state-of-the-art temporal extractors and normalizers (HeidelTime, SUTime, ..).

EDUCATION AND SKILLS

GEORGIA INSTITUTE OF TECHNOLOGY, *Atlanta, Georgia*   2021-2023
M.S in Computer Science with Specialization in Machine Learning

UNIVERSITY OF CALIFORNIA, SAN DIEGO, *La Jolla, CA*   2016-2020
B.S. Cognitive Science with Spec. in Machine Learning and Neural Computation; Minor in Mathematics