Sarah Amiraslani

Data Scientist
samirasl@umich.edu
(408) 332 - 9280

EDUCATION

University of Michigan, Ann Arbor
M.S. in Applied Data Science
Graduated May 2024
GPA: 3.9 / 4.0

University of California, San Diego
B.S. in Cognitive Neuroscience with Honors
Graduated June 2020
GPA: 3.9 / 4.0

SKILLS

Programming
3+ years: Python, SQL, HTML/CSS
1+ years: MATLAB, JavaScript, R

Technology
AI, AWS, Linux, Git, Spark, Docker, Web Dev, Kubernetes, Keras, PyTorch, TensorFlow, Google Cloud Platform

COURSEWORK

Undergraduate: Calculus I-III, Linear Algebra, Statistics, Object-Oriented Programming
Graduate: Data Mining, NLP, Machine Learning, Deep Learning, Network Analysis

LINKS

GitHub:// **SarahAmiraslani**
LinkedIn://**samirasl**
Portfolio://**sarahamiraslani.github.io**

EXPERIENCE

Wells Fargo Bank | Quantitative Analytics Specialist, AVP
April 2022 - June 2024 | San Francisco, CA

- Spearheaded AI/ML Developer Relations program for 500+ data scientists, resulting in 60% faster model development, 20% quicker deployments, and $5M annual ROI.
- Led technical strategy for AutoML and on-premises data science platform services, driving a 150% increase in adoption and a 500% boost in user engagement while addressing critical tooling gaps.
- Elevated AI/ML documentation quality by 300% through comprehensive technical documentation, PySpark ML code samples, and leading 90+ data science office hours.

Changing Room | Data Science Intern
September 2021 - April 2022 | New York City, NY (Remote)

- Engineered scalable data mining and ETL pipelines using Python, Selenium, and SQL, processing and storing 100,000+ clothing item attributes in optimized PostgreSQL databases, resulting in a 50% reduction in data retrieval time.
- Developed an image-based (ResNet-152) recommendation system using Convolutional Neural Networks to recommend more sustainable alternatives to fast fashion clothing.

Trackonomy Systems | Data Analyst
December 2020 - July 2021 | San Jose, CA

- Designed a Python-based computer vision system for manufacturing quality testing, reducing material waste by $115,000 annually and increasing production efficiency by 65%.
- Collaborated with engineering and operations teams to implement a real-time analytics pipeline, enabling proactive issue detection and reducing downtime by 40%.

University of California, San Diego | Research Data Analyst
December 2017 - December 2020 | La Jolla, CA

- Designed and led quantitative experiments using Multivariate Testing and ANOVA models to evaluate STEM instructional methods, resulting in novel findings published in an honors thesis.
- Conducted supervised machine learning analysis on juvenile delinquent teen data to identify eating disorder risk factors, quantifying effects of trauma and support systems; reasearch secured $5K in grants.

PROJECTS

Tracing the Origins of Solar Wind | GitHub://solar-wind-coronal-origin
University of Michigan, Climate and Space Sciences and Engineering

- Engineered solar analysis pipeline, combining dimensionality reduction, clustering, and time series models to map wind origins and forecast sunspot activity, improving accuracy by 30% and reducing prediction error by 25%.