

Sarah Amiraslani

408-332-9280 | sarahamiraslani@gmail.com | [linkedin.com/in/samirasl](https://www.linkedin.com/in/samirasl) | github.com/sarahamiraslani

EXPERIENCE

Data Scientist

Sep. 2024 – Present

NVIDIA

Santa Clara, CA

- Developed and launched a centralized semantic search platform for dataset discovery, converting isolated data into shared organizational assets yielding 1,000+ views and 45 datasets published within week one.
- Designed a cross-domain semantic embedding retrieval engine (patent pending), boosting recall by an average of 41% for multimodal datasets.
- Engineered end-to-end data orchestration and reporting pipelines to collect key metrics on human-in-the-loop annotation efficiency, reducing reporting latency by 85%.
- Spearheaded the development of an annotation time-tracking solution, achieving 95% accuracy despite vendor tool constraints, enabling key resource optimization through creative workarounds.

Data Scientist

Apr. 2022 – Sep. 2024

Wells Fargo Bank

San Francisco, CA

- Spearheaded the AI/ML Developer Relations program for 500+ data scientists, streamlining development and deployment procedures for a 40% faster model deployment life cycle and \$5M annual ROI.
- Led technical strategy for AutoML and on-premises data science platform services, driving a 150% increase in tool adoption and a 500% boost in user engagement while addressing critical tooling gaps.

Data Science Intern

Jul. 2021 – Apr. 2022

Changing Room

New York City, NY (Remote)

- Engineered Python ETL pipelines that delivered a 700% increase in data freshness by automating daily updates.
- Developed a Convolutional Neural Network model, powering a browser extension to recommend sustainable clothing options to online shoppers.

Data Analyst

Dec. 2020 – Jul. 2021

Trackonomy

San Jose, CA

- Designed and deployed a real-time data collection platform across 20+ Raspberry Pi devices in manufacturing, establishing 95%+ component tracking accuracy and significantly reducing inventory discrepancies.
- Built an automated quality testing application leveraging computer vision, cutting material waste by \$115,000/year and boosting production throughput by 35%.

Research Analyst

Dec. 2017 – Jul. 2020

University of California, San Diego

La Jolla, CA

- Designed and conducted experiments with multivariate testing and ANOVA to evaluate STEM teaching methods, producing findings published in an honors thesis.
- Applied supervised machine learning to identify eating disorder risk factors among at-risk youth, securing \$5,000 in grant funding for further research.

PROJECTS

Tracing the Origins of Solar Wind | Python, PCA, t-SNE, LSTM

Mar. 2024 – Jun. 2024

- Built a machine learning pipeline to analyze solar wind origins and predict sunspot activity using dimensionality reduction, clustering, and time series models.

EDUCATION

University of Michigan

Ann Arbor, MI

Master of Science, Applied Data Science

Jan. 2021 – May 2024

University of California, San Diego

La Jolla, CA

Bachelor of Science, Cognitive Behavioral Neuroscience, Magna Cum Laude

Aug. 2017 – Jun. 2020

TECHNICAL SKILLS

Languages: Python, SQL (Postgres, MySQL), NoSQL, JavaScript, HTML/CSS, R, Spark, MATLAB

Developer Tools: Git, Docker, Google Cloud Platform, AWS, PowerBI, Tableau