SARAH AMIRASLANI

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SUMMARY

Data Scientist with 4+ years of experience in statistical analysis, data visualization, and machine learning. Proficient in programming with expertise in transforming complex datasets into actionable insights and building predictive models to drive business decisions.

PROFESSIONAL EXPERIENCE

Wells Fargo Bank, N.A. **San Francisco, CA**
Quantitative Analytics Specialist **Apr 2022 - May 2024**

- Led AI/ML Developer Relations for 500+ data scientists - improving model development efficiency by 60% and accelerating deployments by 20%; which resulted in $5M/year of ROI.
- Technical lead for AutoML and on-premises data science platform services - increasing tool utilization by 150%, user engagement by 500%, and addressing tooling gaps with product leads and vendors.
- Authored 400+ technical articles, wrote PySpark code samples, and hosted 90 technical office hours (avg. 50 attendees) - improving AI/ML documentation quality by 300% and boosting developer experience.

Changing Room, INC. **New York City, NY (Remote)**
Data Science Intern **Sept 2021 - Apr 2022**

- Programmed data mining and ETL pipelines using Python and Selenium, scraping 100,000+ clothing items and storing attributes in relational PostgreSQL databases, creating high-quality machine learning training data.
- Developed an image-based recommendation system using Convolutional Neural Networks (resnet152) and similarity algorithms to recommend ethical alternatives to fast fashion items, delivered to users via an interactable Chrome plugin.

Trackonomy Systems, INC. **San Jose, CA**
Data Analyst **Dec 2020 - July 2021**

- Developed an OpenCV-based computer vision system for manufacturing quality testing, reducing material waste by $115,000 annually and increasing production efficiency by 65%.
- Designed a Python-based GUI for Raspberry Pi devices and a Plotly dashboard, enhancing data collection consistency by 200% and enabling real-time product tracking.

University of California, San Diego **San Diego, CA**
Research Assistant **Dec 2017 - Dec 2020**

- Applied supervised machine learning techniques using Scikit-Learn to identify risk factors for eating disorders among teens and quantify the role of traumatic experiences and support systems; which resulted in $5K in awards.
- Led the design and execution of quantitative experiments using Multivariate Testing and ANOVA models to evaluate STEM instructional methods among 400 university students, enhancing comprehension by 20%.

PROJECTS

Understanding the in-situ Solar Wind Properties and Predicting Sun Spots
Technology: PCA, TSNE, UMAP, LSTM, Prophet

- Utilized dimensionality reduction and clustering techniques to uncover the origins of solar wind. Developed predictive models to forecast heliophysical events, including sunspot counts, enhancing our understanding of space weather patterns.

Formula One Top Ten Predictions and Track Clustering
Technology: Logistic Regression, Random Forest, Neural Networks, DBSCAN

- Harnessed machine learning to accurately predict top 10 finishes in Formula One races. Conducted comprehensive analysis of track characteristics through unsupervised clustering, providing deeper insights into race strategies and performance.

EDUCATION

University of Michigan, Ann Arbor **2021-2024**
MS, Applied Data Science GPA: 3.8

University of California, San Diego **2017-2020**
BS, Cognitive Behavioral Neuroscience with Honors, Magna Cum Laude GPA: 3.9

TECHNICAL SKILLS

Programming: Python, SQL, R, MATLAB, Javascript, HTML, CSS, YAML, PySpark, Hadoop
Data Science: Pandas, NumPy, SciPy, Scikit-learn, PyTorch, Keras, TensorFlow, XGBoost, OpenCV, DataRobot, DriverlessAI
Tools & Platforms: Git/GitHub, Linux, Google Cloud Platform (BigQuery, Vertex AI, Looker), Docker, Kubernetes, Tableau, Power BI