Dagart Allison // Data Scientist

Los Angeles, California ✉ dagartga@gmail.com 🔗 in/dagart-allison ⬡ https://dagartga.github.io/

SUMMARY

Data Scientist with over 3 years of experience in machine learning, SQL, and Python programming. Passionate about using statistical analysis, data management, and visualizations to drive informed decision-making and tangible business value. Proactive team player and effective communicator, who thrives in collaborative, high-performing team cultures.

SKILLS

Technical Skills: Python, SQL, AWS, Databricks, Tableau, Pandas, Numpy, Statsmodels, SciPy, Seaborn, Matplotlib, TensorFlow, Deep Learning, Statistics, A/B Testing, Hypothesis Testing, Linear Regression, Logistic Regression, Classification, Random Forest, XGBoost, Clustering, PCA, Causal Inference, Forecasting, Anomaly Detection, SHAP, Docker, Flask.

Soft Skills: Research, Communication, Accountability, Collaboration, Critical Thinking, Passion, Presentation, Idea Generation.

DATA EXPERIENCE

Data Scientist | Tripalink | Los Angeles, CA   **August 2022 - Dec 2023**
 • Performed the analysis of website traffic KPIs and Google Ads performance using the Databricks framework boosting website conversion rate by 17%.
 • Engineered a data pipeline integrating Google Analytics data with Big Query and Databricks, enhancing data storage and retrieval processes.
 • Produced an anomaly detection model tailored to website KPIs using forecasting models and confidence intervals resulting in automated data quality alerts.
 • Designed a rule based ranking algorithm for rental property listings that increased display of available units by 20% and improved click-through rates by 32%.
 • Built a financial forecasting model using ARIMA/SARIMA that reduced property manager budgeting time by 80%.
 • Managed a Univ. of Washington (Spring 2022) intern for the Data team.

Machine Learning Fellow | Springboard | Los Angeles, CA   **June 2021 - June 2022**
 • Completed over 600 hours of rigorous training in data science, focusing on machine learning, data visualization, and large-scale AI system deployment.
 • Created a deep learning model for BTC price prediction, implementing end-to-end model development and deployment.
 • Executed multiple data-centric projects, enhancing skills in Python, SQL, and various machine learning algorithms including XGBoost, Random Forest, PCA, K-Means, and KNN.

Data Analyst | Realty Services Management Group | Tustin, CA   **May 2021 - Feb 2022**
 • Designed and implemented a Python web scraper of Craigslist property listings and a property similarity algorithm for analyzing the Orange County rental market, resulting in a 15% revenue increase.
 • Performed financial forecasting, reducing budgeting time by 50% and enhancing capital allocation efficiency.

Data Analyst | Glauser Life Sciences | Los Angeles, CA   **Jan 2021 - May 2021**
 • Spearheaded customer segmentation using K-Means clustering, driving targeted marketing campaigns and a 72% increase in digital marketing conversions.
 • Optimized YouTube and Google Ads campaigns through A/B testing, leveraging Google Analytics and statistical analysis tools for a 18% increase in channel purchases.
 • Collaborated cross-functionally to develop data-driven marketing strategies, delivering insights based on campaign analysis and market trends.

PROJECTS

Data Science Portfolio Website (10 Data Science Projects) - https://dagartga.github.io/
 • Developed a **web application for predicting employee attrition** using XGBoost to produce 93% Recall and 98% Accuracy while also providing the main drivers of attrition: hours, satisfaction, evaluation, and overworked high-performer class.
 • Compared and deployed boosting models in a **web application that predicts Parkinson's disease severity**, improving AUC from 0.59 to 0.73 and Recall from 0.22 to 0.73.
 • Utilized **casual impact analysis** to quantify a 41.1% sales uplift for a marketing promotion at a grocery retailer.
 • Conducted **customer segmentation using K-Means** to identify targeted marketing strategies for a grocery retailer.

CERTIFICATIONS

AWS Machine Learning Specialty | 2024
AWS Certified Cloud Practitioner | 2023
Google Advanced Data Analytics | 2023
Springboard Machine Learning Engineer Career Path | 2022

OTHER EXPERIENCE

Associate Scientist/Biologist | Various Biotech Companies | San Diego, CA | 2004 - 2018
 • **Dart Neuroscience:** Elevated operational capacity of high-throughput crystallization experiments by optimizing and maintaining advanced robotics systems, significantly enhancing experiment setup, execution, and protein structure analysis.
• **The Scripps Research Institute:** Managed and enhanced Rigaku automated robotics for protein crystallization, doubling the throughput and improving automation accuracy by 15%.
• **Eli Lilly & Co.:** Spearheaded the maintenance and protocol development for lab robotics, leading to groundbreaking co-crystallization experiments and the crystallization of novel membrane proteins.
• **SGX Pharmaceuticals:** Conducted and refined protein crystallization experiments that led to novel structural discoveries and valuable data for drug development, consistently delivering high-quality results.

EDUCATION

Bachelor of Science, Biology | University of California, San Diego
 • Men's Swimming Team Captain and Division II All-American