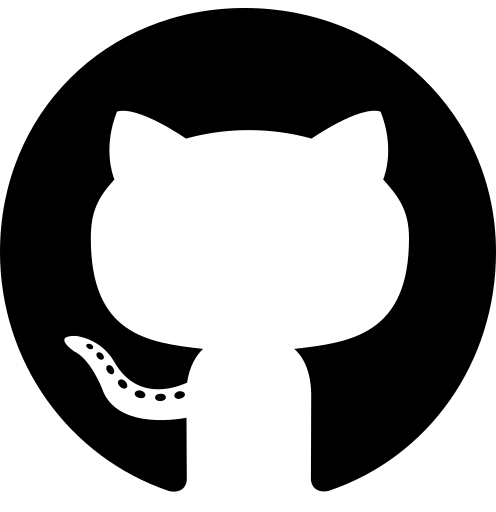
Dagart Allison // Data Scientist

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SUMMARY

Dynamic Data professional with a robust passion for leveraging data to solve business challenges through comprehensive statistical analysis and data-driven decision-making. Expert in deploying advanced data analytics, machine learning, and predictive modeling to enhance operational efficiency and stakeholder engagement. Committed to continual professional development and applying cutting-edge tools and methodologies to achieve tangible business outcomes.

SKILLS

**Technical Skills:** Python, SQL, AWS, Databricks, PySpark, SparkSQL, 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.

**Soft Skills:** Research, Communication, Accountability, Initiative, Collaboration, Critical Thinking, Passion, Presentation, Project Delivery, Idea Generation.

DATA EXPERIENCE

Data Scientist | Tripalink | Los Angeles, CA August 2022 - Dec 2023

• Spearheaded the analysis of website traffic KPIs and Google Ads performance using the Databricks framework.  
 • Engineered a data pipeline integrating Google Analytics data with Big Query and Databricks, enhancing data storage and retrieval processes.  
 • Developed a Superset dashboard that provided actionable insights into website metrics, boosting conversion rates by 17%.  
 • Innovated an anomaly detection model tailored to website KPIs using Holt Winters, ARIMA, and SARIMA models.  
 • Designed a 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 pipeline that reduced property manager budgeting time from 5 hours to 1 hour.

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 Capstone project in deep learning, 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/Property Manager | Realty Services Management Group | Tustin, CA March 2018 - Feb 2022

• Performed data analysis, bookkeeping, and property management tasks for a small property management company.  
 • 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 Analytics Projects) - <https://dagartga.github.io/>

• Utilized **causal impact analysis** to quantify a 41.1% sales uplift for a grocery retailer.  
 • Developed a **web application predicting Parkinson's disease** severity using boosted models, improving prediction metrics significantly.  
 • Analyzed customer purchase patterns to identify strong relationships between products using **association rule learning**.  
 • Implemented **PCA** to effectively reduce feature space for customer classification, achieving 93% accuracy with a Random Forest model.  
 • Conducted **customer segmentation** for targeted marketing strategies, identifying data-driven customer insights.

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 | La Jolla, CA

• Men's Swimming Team Captain and Division II All-American