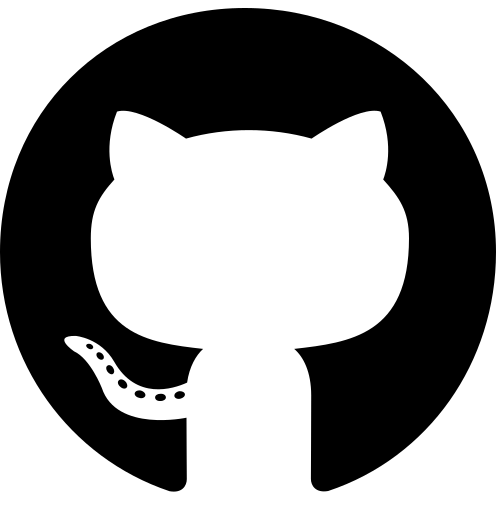
Dagart Allison // Data Scientist

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# 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/**](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