Dagart Allison

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PRODUCT DATA SCIENTIST SUMMARY

I'm a Data Scientist with 3 years of experience in performing statistical analysis for Product using large customer data sets for marketing and website customer analytics. As well, I specialize in creating and deploying machine learning solutions that improve user experience, producing KPI dashboards tell a business story, and creating ELT solutions to turn messy data into intuitive sources of truth. My greatest professional accomplishments are a 72% increase in digital marketing conversions and a 17% increase in website conversion rate.

DATA EXPERIENCE

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

• Developed anomaly detection models with Databricks to identify abnormal data trends resulting in the automated detection of deviations in Key Performance Indicators (KPIs) and reduced downtime by 90%.
• Built a financial forecasting model using ARIMA/SARIMA that reduced manager budgeting time by 80%.
• Engineered a data pipeline and data models using SQL and Python with Big Query and Databricks to optimize third-party data ingestion and ensure data quality across various platforms.
• Improved website conversion rate by 17% through A/B testing analysis for the Product team.

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.
• Analyzed regional pricing trends for different cities in Orange County to discover new desirable neighborhoods.

Data Analyst | Glauser Life Sciences | Los Angeles, CA   **Jan 2021 - May 2021**

• Applied 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.

SKILLS

SQL (HackerRank: Advanced), Python, Databricks, AWS, Streamlit, Tableau, GitHub

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PROJECTS

Data Science Portfolio Website   - https://dagartga.github.io/
• **Parkinson's Severity Web App:** Improved model AUC from 0.59 to 0.73 by reframing the problem and implementing boosted models for classification, resulting in better diagnostic support for clinicians.
• **Employee Attrition Web App:** Created a classification model that achieves 98% accuracy and 93% recall using XGBoost, providing actionable insights to HR managers for attrition management.
• **Sales Impact Analysis:** Utilized causal impact analysis to demonstrate a 41.4% uplift in sales from a marketing promotion.

CERTIFICATIONS & COURSES

AWS Machine Learning Specialty | 2024
Developed proficiency in selecting and training machine learning models using AWS services, applying these skills to create models that predict customer churn for targeted retention strategies. Learned to implement data pipelines using AWS Data Pipeline, Glue, and SageMaker.

Google Advanced Data Analytics | 2023
Acquired advanced skills in data analysis, including statistical modeling and data visualization, to derive actionable business insights resulting in a web application for predicting employee attrition with 98% accuracy and 93% recall.

AWS Certified Cloud Practitioner | 2023
Developed a foundational understanding of AWS Cloud concepts, core services, security, pricing, and support models. Learned how to identify AWS services for common use cases and understand the basics of cloud computing, including cloud architecture, deployment, and operational best practices.

OTHER EXPERIENCE

Associate Scientist/Biologist | Various Biotech Companies | San Diego, CA   **2004 – 2018**
• Optimized lab automation for crystallization experiments resulting in a 300% increase in output.
• Delivered two novel high-resolution protein structures which led to two publications in scientific journals.
• Performed protein crystallization experiments which produced 100s of 3D structures for drug discovery.

EDUCATION

Machine Learning Engineering Career Track | Springboard
 • Completed over 600 hours of rigorous training in data science, focusing on machine learning, data visualization, and large-scale AI system deployment.
 • Executed multiple data-centric projects skills in Python, SQL, AWS, Docker, and various machine learning algorithms including XGBoost, Random Forest, PCA, K-Means, and KNN.

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

FUN FACTS

• I've trained with the US Olympic Modern Pentathlon team.
• I've surfed in 6 different countries.
• My first martial arts class was a two-week Kung Fu camp in Thailand.