

Caleb Tucker Dame

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Experience

Data Scientist – BlastPoint

Oct. 2023 – Present

Remote Work

- Develop predictive regression and classification models for credit unions and utility partners to forecast program adoption, customer churn, and energy/call center usage.
- Conduct data analysis training sessions and deliver reports to stakeholders and clients.
- Build internal tooling scripts to standardize data science processes, streamline project throughput, and create customer-facing AutoML tools in a sandbox environment.

Data Scientist Consultant – Founder – Modulus Partners

Jun. 2023 – Present

Remote Work

- Manage cloud-based machine learning models and develop customer-facing web applications integrating with APIs to optimally schedule sales meetings.
- Implement solutions that sync with sales automation tools such as HubSpot, Close, and Zapier.
- Improve sales efficiency by eliminating 20–40% of low-quality meetings, increasing top salesperson conversion rates by 2–3x and conduct AB testing to improve survey outcomes.

Data Scientist – TransUnion

Feb. 2022 – Oct 2023

Remote Work

- Developed fraud detection models using LightGBM/XGBoost and maintained a Python package for measuring drift in unlabeled data.
- Researched and implemented Autoencoders, Stacked Models for immature fraud detection, and Graph Neural Networks.
- Led cross-team collaborations, integrating newly acquired data assets to enhance feature engineering and model performance.

Data Engineer – M Science LLC

Jun. 2021 – Mar 2022

Murray, UT

- Designed and maintained 15+ ETL pipelines in Databricks, Airflow, and Snowflake, processing 3.5 TB of transformed data daily for financial analysts.
- Built automated anomaly detection using clustering algorithms, increasing data purity by 10–15% and enabling real-time visualization in Tableau dashboards.

Machine Learning Researcher – Brigham Young University, Economics

Apr 2020 – Jul 2020

Provo, UT

- Researched ML applications (XGBoost, Neural Networks, Naïve Bayes) to extract insights from census data and managed large-scale databases in MS SQL Server.
- Improved record-linking accuracy by 80% using advanced feature engineering and a custom implementation of the Hungarian Algorithm to resolve classification conflicts.

Education

Johns Hopkins University – M.S. Artificial Intelligence

Aug 2022 – Present

Brigham Young University – B.S. Applied and Computational Mathematics & Economics

Aug 2017 – April 2021

Dean's List Honoree (2018, 2020)

Technical Skills

Programming & Data Science

- **Python:** Numpy, Scipy, Matplotlib, Scikit-Learn, Pytorch, Flask, Keras, Tensorflow, StatsModels, Pandas, NLTK
- **SQL & Databases:** SQLite, PostgreSQL, NoSQL
- **Big Data & Cloud:** Databricks, Apache Spark (*PySpark*), AWS (*Lambda, S3, EC2, DynamoDB*), Google Cloud Platform
- **Other Languages:** JavaScript, C++, Unix Shell, HTML, STATA

Development and Tooling

- **Environments and Versioning:** Git, Docker, Conda, API Development
- **Data Visualization:** Tableau, Grafana, Matplotlib, Seaborn
- **Workflow Automation & MLOps:** Flask, Airflow, MLflow, Cron, AB Testing