

Brian Burke Lewis
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Oakland, CA
tetrptych.github.io

Summary

I'm a passionate, results-oriented data scientist with a proven ability to deliver on high-impact initiatives, from developing highly personalized data-driven products to implementing ML models end-to-end using the latest technical frameworks.

Professional Experience

KeepTruckin

Data Scientist

2019-2020

- ❑ Designed, validated, and deployed ML models on massive datasets created from our fleet of 200,000+ IoT devices
- ❑ Conducted experiments and ran statistical tests to help us understand our users' behavior patterns and measure product engagement
- ❑ Analyzed the feasibility of new product offerings and delivered my findings to the executive team, quantifying the potential financial impacts on our own business and on our customers'

Bayes Impact

Data Scientist

2017-2019

- ❑ Led the research arm of the organization, investigating disparities in access to social services
- ❑ Designed and implemented models, algorithms, and APIs to support in-house initiatives to bring evidence-based decision making to government policymaking at federal, state, and local levels
- ❑ Worked in partnership with the Centers for Medicare & Medicaid Services to measure physician quality from the nation's largest claims data warehouse as part of a congressionally-mandated effort to implement value-based care and improve healthcare outcomes

MedeAnalytics

Data Engineer

2014-2016

- ❑ Developed two web applications and databases for a large state Medicaid agency:
 - ❑ A big-picture analytics dashboard tracking important public health issues and agency costs
 - ❑ A portal for health professionals to view patients' health information at the point of care
- ❑ Overhauled the ETL process for Medicaid claims to dramatically reduce data delay

Professional Development

- ❑ 2016 Data Science Immersive, Galvanize Academy

Education

- ❑ 2014 Masters of Arts, Mathematics, University of Wisconsin-Madison
- ❑ 2012 Bachelors of Science, Mathematics, Stanford University

Awards

- ❑ 2014 Mathematics Graduate Teaching Award, University of Wisconsin-Madison

- ❑ 2012 Phi Beta Kappa Inductee, Stanford University

Technical Skills & Proficiencies

Languages

- ❑ Python, Java, C++
- ❑ Various flavors of SQL (Snowflake, Redshift, Vertica, Postgres) and NoSQL
- ❑ Spark, Hadoop, Hive

Machine Learning & Statistics

- ❑ pandas, numpy, scikit-learn, statsmodels, scipy, seaborn
- ❑ SparkML, XGBoost, PyTorch
- ❑ regression, classification, clustering, hyperparameter tuning, feature selection
- ❑ hypothesis testing, bootstrapping, cross-validation, Bayesian inference
- ❑ statistical data analysis and causal inference

Miscellaneous

- ❑ AWS ecosystem, Docker, Kubernetes
- ❑ GIS and spatial algorithms, mapping and data visualization (Looker, Tableau, Redash)
- ❑ Data modeling, API design, high-performance Python, web-scraping, multiprocessing