danielben-zion
data scientist · machine learning engineer

Contact
dbzion@gmail.com
linkedin/dbenzion
github/dbz10
310-237-2569

Languages
Python
SQL
Scala
Julia

Tools
Spark / PySpark
Numpy, Scipy
pandas, Scikit-Learn
Matplotlib/Seaborn
PyTorch
NLTK/Gensim
Django, Bootstrap

Machine Learning
Bayesian modeling
Classification
Clustering
Computer vision
Forecasting
Forests & Boosted
Trees
Natural language
processing
Validation & Monitoring

ML Ops
Jenkins
AWS
Airflow
Docker

experience

Data Scientist · Magnite (formerly Rubicon Project), Los Angeles   2019 –
- Led a feature engineering effort to augment our traffic shaping product, resulting in ~$5M of incremental yearly revenue.
- Developed a forecasting model which powers the planning system responsible for pacing guaranteed ad campaigns running through our exchange.
- Designed and executed numerous experiments to help product stakeholders make decisions using statistically robust data, and provide a holistic understanding of new features' impact on our platform.

Technical Advisor · Insight Data Science, Los Angeles   2019 – 2020
- Advised fellows on translating business & product needs into concrete machine learning objectives and presenting outcomes to stakeholders.
- Consulted on model development, validation, and experimentation.

Fellow · Insight Data Science, Los Angeles   06-08 2019
- Used doc2vec to build a content based recommender system for improving the online pet food shopping experience.
- Deployed as a Flask app in AWS.

Graduate Researcher · University of California, San Diego   2013–2019
- Designed and implemented numerical experiments to study novel models of quantum materials.
- Research lead to three publications and multiple invited talks.

Instructor & Teaching Assistant · University of California, San Diego   2013–2019
- Created and implemented course materials and lesson plans as both teaching assistant and primary instructor across a wide variety of undergraduate physics courses at UCSD.

personal projects

NHL Awards Analysis
Scraped hockey statistics and performed machine learning analysis using an ensemble of models from the sklearn library to predict voting for seasonal player awards.

education

2013–2019	Ph.D. in Physics	University of California, San Diego
	Dissertation: Topological Phases and Correlated Fermions in Many-Body Systems	
2009–2013	Bachelor of Science in Physics	University of Southern California