



DATA SCIENTIST - MACHINE LEARNING ENGINE

"Be the change that you want to see in the world."

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Skills

Languages Python, R, SQL, Julia, Matlab, Scala

DevOps AWS, Kubernetes, Docker, Terraform, Ansible, Jenkins, Argo, AirflowFrameworks Scikit Learn, Tensorflow, Keras, Pandas, Dask, SpaCy, Tidyverse, Spark

Back-end PostgreSQL, MongoDB, Django, REST API

Experience

Grai St. Louis, MO

FOUNDER July 2021 to present

- Grai is a platform agnostic marketplace for ML and analytics based applications.
- Gain access to the universe of AI without having to build a team from scratch.

Centene St. Louis, MO

LEAD MACHINE LEARNING ENGINEER

Jun. 2019 - July 2021

Dec. 2014 - May. 2016

- Data Science project lead over the NextGen and population health data science applications.
- Lead a mixed team of seven data scientists and data engineers responsible for developing and propagating new technologies and capabilities
 within the company.
- Responsible for project planning and coordination with diverse stakeholders across the organization.
- Project architect for internal machine learning deployment and maintenance framework.
- Pioneered the notion of a "Full Stack" data science team within Centene that owned the full application delivery lifecycle from ideation to deployment.
- Technical lead and mentorship for junior data scientists and engineers.

CiBO Technologies St. Louis, MO

LEAD DATA SCIENTIST May 2018 - May 2019

- Lead a team of data scientists developing smart tooling around data validation and ingestion of incoming messy data.
- Developed and implemented fluid flow models of rainfall distribution across varied geographies.
- Developed and implemented custom software to provide sophisticated light scattering corrections to leaf area index calcuations.
- Worked on unsupervised clustering with metric learning capabilities to drive field level environmental classification.

Monsanto St. Louis, MO

DATA SCIENTIST Feb. 2017 - May 2018

- · Built and deployed customer demand and behavior forecasting models via GLM and tree based approaches.
- Developed generalized customer segmentation models using K-means clustering with side information.
- Oversaw development and deployment of key customer analytics business metrics driving company wide sales strategies.

Better Weekdays St. Louis, MO

SENIOR DATA SCIENTIST May 2016 - Feb. 2017

- Lead a mixed team of data scientists and data engineers to develop crucial early stage company analytics capabilities.
- Built out early stage BI and analytics capabilities in Metabase.
- · Lead the implementation of companies first data warehouse leveraging RabbitMQ, Django, and a custom built stream processing library.
- · Deployed customized Lucene based recommendation systems to support core job recommendation functionality.
- Deployed Bayesian Multi-Armed Bandit recommender systems to provide job recommendation capabilities tailored to user preferences.

Bellhops Chattanooga, TN

- Lead a mixed team of data scientists and data engineers to develop crucial early stage company analytics capabilities.
- Responsible for analytical work leading to successful close of \$13.5 million series B funding round.
- Built out early stage BI and analytics capabilities in Chartio.

LEAD DATA SCIENTIST

- · Lead the implementation of companies first data warehouse leveraging AWS, Airflow, and SQLAlchemy.
- Developed and deployed demand forecasting models across all company market segments.
- Oversaw development of early stage machine learning capabilities leveraging NLP, alongside other traditional ML components.

Drexel UniversityPhiladelphia, PA

Doctoral Candidate (ABD)

Sep. 2011 - Dev. 2014

 Developed computational finite element techniques to model Schroedingers Equation on arbitrary two dimensional geometries with special interest in the geometric pseudo potential on bound particles.

- · Developed performant finite element system implemented (Matlab) with GPU parallelization in CUDA.
- Molecular dynamic & conformational analysis of AB-42 protein folding and it's role in Alzheimer's formation.
- Teaching undergraduate physics for engineers.

Helmholtz Zentrum Berlin

Berlin, Germany

RESEARCH ASSISTANT

Jun. 2012 - Dev. 2012

- Designed & instrumented custom hall sensor array for field characterization in ultra-high magnetic field, cryogenic environments.
- · Wrote custom instrumentation software (Borland Delphi).
- Experimental apparatus design in 3D CAD (Solidworks).

Education

Drexel UniversityPhiladelphia, PA

M.S. IN PHYSICS

Sep. 2011 - Dec. 2014

• Computational Quantum Mechanics

Baylor University

Waco, TX

B.S. IN PHYSICS, MINOR IN MATHEMATICS

Sep. 2007 - May. 2011

Open Source Projects

Visions

AN OPEN SOURCE LIBRARY FOR SEMANTIC DATA.

Compressio

LOSSLESS IN-MEMORY COMPRESSION OF PANDAS DATAFRAMES AND SERIES

Pandas Profiling

AUTOMATED EXPLORATORY DATA ANALYTICS

Publications

JOURNAL ARTICLES

Visions: An Open-Source Library for Semantic Data

Ian Eaves, Simon Brugman

Journal of Open Source Software 5.48 (2020) p. 2145. The Open Journal, 2020

Time-dependent spatial intensity profiles of near-infrared idler pulses from nanosecond optical parametric oscillators

L. J. Olafsen, J. S. Olafsen, I. K. Eaves

Applied Physics B 124.6 (May 2018) p. 110. 2018

Synchronized Mid-Infrared Beam Characterization of Narrow Gap Semiconductors

L. J. Olafsen, I. K. Eaves, J. S. Olafsen

AIP Conference Proceedings 1416.1 (2011) pp. 88-90. 2011