

DAN VATTEROTT

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PROFESSIONAL EXPERIENCE

Showtime Inc | New York, NY

May 2017 – Present

Data Scientist

- Built a data-pipeline using Python and Apache Spark that transforms raw data from millions of customers into business relevant insights
- Designed a Hive database that houses the data-pipeline's outputs
- Trained and deployed Machine Learning models (Apache Spark) that predict future customer behaviors and relay these predictions throughout the company
- Built an Apache Airflow server (AWS) for coordinating and scheduling distributed-computing jobs (e.g., calling data-pipelines and machine learning models)
- Built testing platforms for verifying the quality of data-pipeline algorithms and raw data

Insight Data Science | New York, NY

January 2017 – May 2017

Data Science Fellow

- Built *Sifting the Overflow*, a chrome extension that highlights the most helpful parts of Stack Overflow answers
- Ingested 500,000 Stack Overflow answers into a Postgres database
- Trained a recurrent neural network to identify helpful portions of Stack Overflow answers
- Built a web-app front-end (Flask, AWS) describing my chrome extension

Columbia University | New York, NY

June 2015 – January 2017

Postdoctoral Research Fellow | Department of Neuroscience

- Built a data-pipeline which performs ETL on data from 100 electrodes sampling at 10,000 Hz
- Used Machine Learning algorithms that used neural activity to predict behavior
- Used k-means clustering and PCA to extract eye-movement and electrophysiological signals from raw data
- Developed interactive, real-time tasks that react according to participants' eye-movements

University of Iowa | Iowa City, IA

August 2010 – June 2015

Graduate Researcher | Department of Psychology

- Built regression and ANOVA models that describe where people will direct their attention
- Taught 5 courses on topics such as Research Methods and Statistics (rated 5.8/6 by students)
- Published 8 research articles and presented at 10 international conferences

EDUCATION

University of Iowa | Iowa City, Iowa

August 2010 – June 2015

Doctor of Philosophy, Psychology, Concentration in Cognition and Perception

University of Wisconsin | Madison, Wisconsin

August 2006 – May 2009

Bachelor of Science, English and Psychology

SKILLS

Programming: Python (NumPy, Pandas, Sci-Kit Learn, Matplotlib), Spark, Bash, JavaScript (d3)

Data Analysis: Regression (GLM), Classification (Xgboost, neural networks), Hypothesis Testing (ANOVA, t-tests), Unsupervised Learning (k-means clustering, GMM)

Databases: SQL (PostgreSQL, HiveQL, MySQL)

Operating Systems: Linux (Ubuntu, Debian), OSX, Windows