Charlie Guthrie

Data scientist and visualization engineer

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WORK

Facebook Data Scientist

Jul 2017 - Present

- On Community Integrity team, which enforced content policies, removing porn, hate speech, and other bad behavior.
- Designed, prototyped, and worked with engineer partners to develop system and dashboard for measuring accuracy of our content reviewers.
- Estimated sample and headcount requirements for stable metrics with narrow confidence interval, designed system to test reviewer expertise to ensure reliable metrics, tracked accuracy in dashboard.
- Developed model to filter out ambiguous cases, which realigned team to focus on improving accuracy in more actionable, straightforward cases.

Amazon (Audible) Data Science Intern Spring 2017

- Cadent
- Data Science Intern Summer 2016

The New York Times Data Vis Engineer May 2013 - Jun 2015

- **Dstillery** Data Science Analyst Mar 2011 - Apr 2013
- Carfax Marketing Analyst Sep 2009 - Feb 2011

- Natural language processing research at leading audiobook provider. - Clustered user comments and identified representative samples.

- Used textrank to automatically tag books with keywords for search.
- Data science consulting position for TV & digital advertising network.
- Used variational auto-encoding to simulate sensitive data.
- Planned upgrades to ad forecasting system to be built after my departure.
- Developed interactive visual dashboard used for business intelligence analytics company-wide, and live-updating dashboard measuring how people use nytimes.com, including most popular articles and referrers.
- Data analysis and testing on ad targeting models for a digital advertising
- Managed intern and educated employees on our bidding process.

- Researcher in company that produces used vehicle history reports.
- Developed statistical models for predicting annual driver mileage and for identifying best client prospects.

EDUCATION

See projects at charlieguthrie.net

New York University

Sep 2014 - May 2017

MSc Data Science

- Coursework included Statistics, Deep Learning, Machine Learning, Big Data, Inference, Natural Language Processing, and Algorithms

Dartmouth College

Sep 2003 - Jun 2007

B.A. Mathematics

- Coursework included Mathematical Statistics, Modeling, CS

SKILLS

Data Science

- Analysis in Python (Pandas, NumPy, SKLearn), R, Excel; gueries in SQL, Hive/Hadoop; deep learning with Tensorflow/Torch.

Data Vis / Front-end Other

- HTML, CSS, Javascript, specializing in D3 and JQuery.
- Shell scripting, Microsoft Office Suite; Conversant in French.