Brian P. Abelson

Profile

Skills

Data Science
 Machine Learning, Natural Language Processing, Computer Vision, GIS, Visualization, Web Sci.

Software Development
 Applications, APIs, Database Management, Automation, DevOps.

Digital Journalism
 Creative and inventive storyteller skilled in carrying out acts of journalists.

Technologies

Experience

Kickstarter Data Engineer, 2017

- In less than a month, singlehandedly designed, prototyped, and deployed a spam classifier capable of greater than 98% acceptable.
- Developed a timeseries algorithm for predicting the likelihood that a Kickstarter project will succeed or fail and how much it will raise (>90% accuracy one day after launch). By constructing the model as an HTTP service, its output has been in
- Provide daily support, guidance, and mentorship to three Data Analysts.

Vox Media Chief Data Scientist, 2016

- Responsible for the design, development, and ongoing maintenance of a centralized Hive warehouse for all of the company's key data sources, including Google Analytics, Chartbeat, DoubleClick for Publishers (DFP), Chorus (our proprietary content management system), Facebook Insights, Twitter Analytics, Youtube Analytics, Snapchat Analytics, and several others
- ectly to the CEO and were fu

Enigma Chief Data Scientist, 2013-2015

- Designed and developed a global database of government procurement contracts within ten non-english speaking countries for a Fortune 100 company. This involved extracting structured data from messy websites, PDFs, Word Documents, PowerPoints, and poorly-formatted Excel spreadsheets. To accomplish this task, I hired and trained a team of four people, designed custom reusable software to expedite the data acquisition process, and interfaced directly with the clients. The successful delivery of this application was fundamental in securing a multi-year, multi-million dollar contract which increased Enigma's revenue ten-fold and aided in raising \$27 million in venture capital.
- Worked with the City of New Orleans to develop machine learning-based tool to assist in addressing the city's backleg of blight abstracent cases. Within three months of the tool's implementation, the backleg of cases had been fully diminized. This project var governed an avail of the minimum of Convernmental Research.

 In collaboration with the Red Cross, Dataklind, and local fire departments, I developed a novel anchine learning model capable of predicting the likelihood that residents in a given cross block laseded a mucke alarm. This project was powered by multiple open-source libraries and resulted in a five web application which enabled local governments to upload their own five and return is not of addresses to target for improprious. The tool of actively used by multiple in departments their comploate their House Trive Propundents Contracted Camaging.

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- Analyzed and visualized 50 years of daily temperature readings from NOAA to identify daily temperature anomalies. The resulting map and analysis helped communicate how climate change results in not only in warmer weather, but m UN's Intergovernmental Panel on Climate Change, was tweeted by Bill Gates, and was also deemed the "best visualization of climate change" by Jer Thorpe (a prominent data artist).

NewsLynx Co-founder and CTO, 2013-2015

Conceived of, secured funding for, and led development of a platform for measuring the quantitative and qualitative impact of nonprofit journalism. The project resulted in a white

DataKind DataCorps Ambassador, 2013-2014

 Worked with GiveDirectly, a non-profit which addresses extreme poverty via direct cash transfers, to create an algorithm that uses satellite images to help staff more efficiently identify villages in need. By optimizing the org Social Good Paper* at KDD, the world's leading Data Mining conference. ation's outreach efforts, the algorithm was estimated to save almost 400 hours of volunteer time. The project was published in Biq Data and was awarded "Best

New York Times / Knight-Mozilla OpenNews Data Scientist / OpenNews Fellow, 2013

 Working with multiple terabytes of raw event logs, as well as novel data sources. I developed Pagevin ent - a metric for better assessing the performance of online content. In addition to this principal project, I assisted in internal analytics efforts and collaborated with the Computer Assisted Reporting team on data journalism projects

Treasury.IO Technical Lead, 2013

With a group of other journalists, developers and data scientists, I built and open-sourced a first-of-its-kind data feed for how the U.S. government spends and takes in money on a daily basis. The project has been used in stories by Al-Azzera America, Time and others. The project was funded through a Knight-Mozilla Code OpenNews Sprint grant.

Harmony Institute Data Scientist, 2012

Conducted literature reviews, translated pr

Harry Frank Guggenheim Foundation Assistant Program Officer, 2009-2011

Grassroots Campaigns Assistant Office Manager, 2004

Recruited, trained, and managed a team of 10+ door-to-door canvassers, raising money for the Kerry Campaign.

Education

Master's Thesis: "The Neural and Emotional Correlates of Social Media."

- ork in Data Mining, Timeseries Analysis, Bayesian Statistics, Survey Design, Python, and GIS

Whitman College | Walla Walla, WA Bachelors in Politics with Honors 2005-20

. Honors Thesis: "Another end of the world is possible: The apocalyptic narratives of American Imperialism

Awards / Grants

- AWAITAS / AUTAINES

 Escellence in immoration. Bureau of Governmental Research, 2016

 Boet Data Visualization Projects. Flowing Data, 2014

 Boet Data Visualization Projects. Flowing Data, 2014

 Boet Social Cood Paper. RDD, 2014

 Boet Social Cood Paper. RDD, 2014

 Pellow, Two Center for Digital Journalism, Columbia University, 2013-2015

 Fellow, Knight-Monillo Open-News / New York Times, 2013-2015

 Code Sportt Grant, Knight-Monillo Open-News, 2019

 Boet in Show, New York Times Open Source Science Pair, 2013

 Boet in Show, New York Times Open Source Science Pair, 2013

Publications

Varshney, Kush R., Abelson, Brian, et. al. (2014). Targeting villages for rural development using satellite image analysis. Big Data 3:1.