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 journalism.

Technical

- Software: Vython / Go / Bash

 Statar: R/Hadoop / Hitre / Spark / Stata / Excel

 Frontend: HITML/CSS / Javascript

 Dits: SQL / ElasticSearch / Mongolbi / Redis

 Glis: Postill'S / Cartable / Arcell's / QGlis

 Visualization: Dyjs/ ggpdts / Tableon

 Cloud: MSS / Gorgel Canad / Digital Ocean

 OS: Mac / Limux / Ubunitu

Experience

- sifier capable of greater than 99% accu
- Built, from the group up, 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's construction of the project of the proje

Provide daily support, guidance, and mentorship to three Data Analysts.

Vox Media Chief Data Scientist, 2016

- Responsible for the design, development, and ongoing maint nce of a centralized Hive warehouse for all of the company's key data sources, including Google Analytics, Chartbeat, DoubleClick for Publishers (DFP), Chorus (our propris Wrote Hive queries and custom Man-Reduce jobs to join and analyze these data sources. These analyses are presented directly to the CEO and were fundamental in steering company-wide rev ities for future growth.

- Designed and developed a global database of government procurement contracts within ten non-english speaking countries for a Fortune too company. This involved extracting structured data from measy websites, PDFs, Word Documents, PowerPoints, and poorly-formatted Excel speaked as a power of the application was found as a found of the contract within ten non-english speaked too as such as a found of the contract within ten non-english speaked too as such as a found of the contract within ten non-english shade to state of the contract o
- Analyzed and visualized go 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 war 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 qua

DataKind DataCorps Ambassador, 2013-2014

 Worked with Give Directly, 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 organ Social Good Paper" at KDD, the world's leading Data Mining conference. ttion's outreach efforts, the algorithm was estimated to save almost 400 hours of volunteer time. The project was published in Big Duta and was awarded "Best

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

Working with multiple terabytes of raw event logs, as well as novel data sources, I developed Pagaviews Above Replacement – 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.

 With a group of other jo ists, developers and data scientists, I built and open-so

Utilized data from social media, the web, and EEG scans to develop new methodologies for n

Columbia University Research Assistant, 2011

 Conducted literature reviews, translated pr nary interviews in French, and provided detailed edits of Dr. Severine Autesserre's book Peaceland, published by Cambridge University Press

Harry Frank Guggenheim Founda Assistant Program Officer, 2009-2011

Reviewed over 400 applications for annual Research Grants and Dissertation Fellowships, providing detailed ass

Grassroots Campaigns Assistant Office Manager, 2004

Education

Columbia University, QMSS | New York, NY Masters in Applied Statistics, 2011-2013

- Master's Thesis: "The Neural and Emo Coursework in Data Mining, Timeseries Analysis, Bayesian Statistics, Survey Design, Python, and GIS

Whitman College | Walla Walla, WA Bachelors in Politics with Honors, 2005-2008

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

Awards / Grants

- Excellence in Innovation, Bureau of Governmental Research, 2016

 Best Dhat Visualization Projects, Flowing Data, 2014

 Best Data Visualization Projects, Flowing Data, 2014

 Best Social Good Paper, RIOD, 2014

 Best Social Good Paper, RIOD, 2014

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

 Fellow, Knight-Mozilla OpenNews / New York Times, 2013-2014

 Code Spiritt Grant, Right-Mozilla OpenNews, 2014

 Best in Show, New York Times Open Source Science Fair, 2013

 Best in Show, New York Times Open Source Science Fair, 2013

 Best in Mozilon and Best in Hoose, Goods and Best in Colon.

Publications

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

Dmochowski, J.P., Abelson, Brian, et. al. (2014). Audience preferences are predicted by temporal reliability of neural