Matthew Lichti

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Education

Zipfian Academy   **San Francisco, CA   Jan. – Mar. 2015**
- Designed a model with python and SQL to predict which loans on kiva.org will get funded and identify the key predictive features - uses TF-IDF and a weighted random forest model
- Performed Bayesian A/B testing and multi-armed bandit analysis on website click-through-rates
- Conducted churn analysis for a ride sharing app
- Built a python model to detect fraud events in online ticketing data

Iowa State University   **Ames, Iowa   Aug. 2003 – Dec. 2007**
- B.S. in Electrical Engineering – specialization in Control Systems
- Coursework in signal processing, embedded systems, digital logic, semiconductors, economics

Coursera Coursework   **Sep. 2012 – Sep. 2014**
- Machine Learning, Data Analysis, Game Theory, Mathematical Biostatistics
- Interactive Programming in Python, Intro to Finance, Synapses Neurons and Brains

General Assembly Data Science: **San Francisco, CA   Oct. – Dec. 2014**
- Used a variety of machine learning techniques to predict titanic survivors from Kaggle data
- Analyzed online education data to predict student performance

Experience

U.S. Patent & Trademark Office   **Alexandria, VA   Jan. 2008 - Oct. 2010**
- Queried databases for relevant patent and other technical documents
- Analyzed patent claims to determine obviousness in light of prior publications
- Wrote detailed reports to communicate reasoning for rejecting or allowing each patent claim
- Conducted interviews with patent applicants and attorneys
- Domain expert on patent applications in vehicle data processing and navigation fields

Caterpillar Inc.   **Peoria, IL   May 2005 - Aug. 2007**
- Designed and implemented hardware and software test plans
- Wrote software specification documents for embedded software
- Managed databases for purchasing, tracking, and distributing hardware

International Travel and Volunteer Work
- Volunteered teaching English and computer skills in Asia and Latin America   **2011 - 2014**
- Web master and treasurer and for Rotaract Club of Washington DC   **2009 - 2012**

Skills

- Python - Pandas, Numpy, Scikit-learn, StatsModels, Beautiful Soup, Matplotlib, NLTK, Flask
- Machine Learning - Regression, Random Forest, SVM, Naive Bayes, K-means, KNN, PCA, NLP
- Databases – Postgres SQL, MongoDB
- Distributed Computing - MapReduce, Graphlab, AWS EC2, Spark (beginner
- Other Technical - Java, C, Matlab, R, Unix shell
- Foreign Languages – Spanish (proficient), Chinese (beginner)