MATT SHADISH

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EDUCATION

M.S. Analytics, University of San Francisco **Expected July 2015**

Coursework: Machine Learning, Linear Regression, Time Series Analysis, Databases (relational and NoSQL)
GPA: 3.94

B.S. Mechanical Engineering, UCLA **December 2013**

Honors**:** Phi Beta Kappa, Tau Beta Pi
GPA: 3.75

WORK EXPERIENCE

General Electric, San Ramon, CA **November 2014 – March 2015**

Data Analytics Intern

Parts Sourcing Project

- Improved search experience through parts database with elasticsearch and Python Flask
- Implemented and deployed fuzzy matching of part descriptions as a MapReduce job with Hadoop Streaming

Company-Contact Mapping Project

- Doubled match rate of company names using Levenshtein distance metrics, custom weightings, and multiprocessing in Python

Engage3, Davis, CA **December 2013 – August 2014**

Data Scientist, Category Management Algorithms

- Managed, designed, and implemented Oracle PL/SQL algorithms to categorize 800M+ retail product records
- Improved runtime of daily Oracle PL/SQL batch processes by 90% by developing incremental features
- Modeled regular and promotional pricing among retailers using regression analysis of product prices
- Collaborated with Data Science team members using Git, TortoiseSVN, and Assembla

PROJECTS

Convergence Investment Management **March 2015 – Present**

- Supplementing existing trading strategy using machine learning techniques in Python and R

Kaggle: Driver Telematics Analysis **January 2015 – March 2015**

- Established driver fingerprints by extracting and creating features from driver positional data using R
- Performed anomaly detection across driver data using a combination of a bagged logistic regression classifier and a random forest in Python with scikit-learn
- Scored in the top 30% of contestants out of 1500+

Financial Markets Sentiment Extraction **September 2014 – October 2014**

- Scraped market opinion sites to understand market sentiment using Python and Beautiful Soup

Eccentric Exercise Machine Prototype **June 2013 – September 2013**

Founder, Lead Engineer

- Researched, designed, and fabricated a prototype exercise machine made to facilitate eccentric exercise
- Drafted and submitted a provisional utility patent application

TECHNICAL SKILLS

- Programming Languages
  - Proficient: Python, SQL (Oracle PL/SQL, PostgreSQL, MySQL), R, SAS
  - Familiar: Bash, LaTeX, JavaScript (D3.js), C++
- Other technologies: Git, Hadoop Streaming, elasticsearch, Apache Solr, MongoDB