

MATT SHADISH

San Francisco, CA · (925) 487-1921 · m.shadish@engineering.ucla.edu · GitHub: [mshadish](#)

EDUCATION

M.S. Analytics, University of San Francisco

Expected July 2015

Relevant coursework: Machine Learning, Linear Regression, Time Series Analysis, Multivariate Statistics, Databases (RDBMS and NoSQL), Distributed Computing, Data Visualization

GPA: 3.95

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 to customer contacts 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
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PROJECTS

Convergence Investment Management

March 2015 – Present

- Supplementing existing trading strategy with 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 estimator and a random forest in Python with scikit-learn
- Scored in the top 30% of contestants out of 1500+ with an AUC of 0.85

Kaggle: Sentiment Analysis on Movie Reviews

November 2014 – January 2015

- Predicted movie review scores from text data using word vectorization and SVM in Python with scikit-learn

Financial Markets Sentiment Extraction

September 2014 – October 2014

- Scraped market opinion sites to understand market sentiment using Python and BeautifulSoup
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TECHNICAL SKILLS

- Programming Languages
 - Proficient: Python, SQL (Oracle PL/SQL, PostgreSQL, MySQL), R
 - Familiar: Bash, JavaScript (D3.js), SAS, LaTeX, C++
- Other technologies: Git, Hadoop Streaming, Spark, Elasticsearch, Apache Solr, MongoDB
- Modeling: Classification, Regression, Ensembles, Clustering, Anomaly detection, Feature extraction, PCA