Matt Shadish

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EXPERIENCE

ENGAGE3 | Davis, CA — Dec 2013 - Current

Director of Data Science | Jan 2021 - Current
Data Science Manager | May 2018 - Jan 2021

Engage3 partners with retailers to manage their competitive strategy and Price Image. Our omnichannel Competitive Intelligence Management platform provides accurate competitive pricing data and data science-powered solutions to retailers worldwide.

As the company grew from 10 to 100+ FTE's, I built out Engage3's Data Science and Reporting department to drive and support 15X revenue growth. Key responsibilities include

- Overseeing team of 8+ Data Analysts, Scientists, and Visualization Architects responsible for supporting 67%+ of current annual revenue through DaaS offerings
- Leadership responsibilities include personnel management, hiring, driving technical roadmap, championing company core values, creating Engage3's competitive data product verticals
- Designed, developed, and implemented Comp Shop Optimization service for our CIM programs to balance competitive visibility with budget. Reduced cost of a top-tier enterprise program of in-store shops by over 50% (savings over $1M)
- Drove 3% of 2018 revenue developing a new analytics offering to reverse-engineer competitor pricing strategies using 1,000,000,000+ data points; methods include unsupervised clustering and classification algorithms with `Scala`, `Spark`, and `Python` on Amazon EMR
- Lead technical account manager coordinating directly with high-value enterprise clients
- Regularly collaborate with CEO and CTO showcasing analytics capabilities to grow enterprise-level customer base

Data Science & Analytics Lead | Aug 2015 - May 2018
Analytics Consultant | Jun 2014 - Aug 2015
Data Scientist | Dec 2013 - Jun 2014

In 2015, Engage3 pivoted to 10-15 FTE's, and I took on the role of Data Science & Analytics Lead, during which time we turned around from a 2-week runway (2015) to closing Series B funding round (2017).

- Designed, developed, deployed, and maintaining pipeline of in-store data collection, management, analysis, and on-demand reporting; achieved via `SQL`, `Python` endpoints, and `bash` scripts. System supported 50%+ of total 2017 revenue; still currently supports 80%+ of in-store shops
- Designed, developed, and deployed fully-automated real-time processing of 1M+ daily crawl records in Amazon Redshift and Amazon RDS Postgres; providing live self-serve competitor visibility to several customers through visuals on top of this data
- Deployed and actively maintained Python Flask and CherryPy endpoints for external and internal self-service automation on Amazon Elastic Beanstalk and company hardware

GENERAL ELECTRIC | San Ramon, CA — Nov 2014 - Mar 2015

Data Analytics Intern

- Created lean search tool in parts database using `elasticsearch`, `Python Flask`, and `JavaScript`

ATAC | Sunnyvale, CA — Jun 2012 - Jun 2013

Aviation Data Analyst

- Analyzed hundreds of thousands of flight data points to identify opportunities for noise and emissions reduction in standard departure/arrival routes using Microsoft Excel extensively

EDUCATION

UNIVERSITY OF SAN FRANCISCO | MS in Analytics

2015

Cum. GPA: 3.88

UNIVERSITY OF CALIFORNIA, LOS ANGELES | BS in Mechanical Engineering

2013

Cum. GPA: 3.75 • Phi Beta Kappa • Tau Beta Pi

SKILLS

TOOLS & TECHNOLOGIES

AWS

EMR • Elastic Beanstalk • S3 • EC2 • boto

Azure

Azure App Services • OneDrive

SQL

Snowflake • PostgreSQL • Oracle (PL/SQL) • Redshift • MySQL

Analytics Tools

Apache Spark • Tableau • Elasticsearch • Redis

Project Management

Git • Assembla • Proofhub • Basecamp

LANGUAGES

10,000 lines

Python • SQL

1,000 lines

Bash • Scala • LaTeX

100 lines

JavaScript (D3.js) • R

PROJECTS

TREASURY YIELD CURVE VISUALIZATION — **2017 - CURRENT**

https://github.com/mshadish/yield-curve/

- Automatic downloading and transforming historical XML treasury yield data nightly using `Python`, `bash`
- Using `D3.js` for interactive visualization of US Treasury yield curve over time

LENDINGCLUB PORTFOLIO PERFORMANCE ANALYSIS — **2017 - CURRENT**

https://github.com/mshadish/lendingclub/

- Automatically collecting LendingClub personal portfolio data nightly and storing time-series loan data using `Scala`, `SQLite`, and LendingClub REST API; Visualizing trends in borrower solvency using `D3.js`

AUTOMATED FUND RECOMMENDER — **2015 - 2016**

https://github.com/mshadish/morningstar-scrape/

- Scraped morningstar.com daily to identify and broadcast buy/sell opportunities using `Python`, `cron`, SMS

KAGGLE: DRIVER TELEMATICS ANALYSIS — **2015**

https://github.com/mshadish/kaggle_drivers/

- Detected anomalies in driver patterns using bagged logistic regression estimator and random forest in `R` and `Python scikit-learn`; scored in the top 30% of contestants out of 1500+ with an AUC of 0.85