

Matthew Swogger

Data Scientist

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SUMMARY

I'm a highly-analytical thinker and quick learner with a background in physics and probability/statistics. I enjoy building models and finding insights in data that help to make people's lives better and easier.

SKILLS

Models

- Linear/Logistic Regression
- Recurrent Neural Nets
- Convolutional Neural Nets
- A/B Testing
- SVM
- KNN
- Random Forest
- K-Means
- Hierarchical Clustering
- Naive Bayes
- TF-IDF
- PCA
- ARIMA

Programming and Analysis

- Python
- keras
- tensorflow
- numpy
- Tableau
- matplotlib
- seaborn
- SciPy
- Pandas
- Scikit-learn
- BeautifulSoup
- Pymongo

Databases

- SQL
- MongoDB

Scalable Data Technologies

- Spark

EXPERIENCE

LETSBEVY Data Scientist

Feb. 2017 - Present

Oakland, CA - Remote

Led the design, implementation, and put into production the matching algorithm to match bands to the ideal gigs for them and match venues/event planners to the best bands for their event.

GALVANIZE Machine Learning & Data Science Fellow Apr. 2016 - Jul. 2016 San Francisco, CA

Immersive program consisting of instruction in the techniques and technologies of data science, covering everything from A/B testing to NLP, and CNN. Built a number of dashboards using Tableau.

Projects

Recurrent Neural Network Surge Forecaster

- RNN with one LSTM hidden layer trained on 16 point multivariate time series dataset. Has an MSE of 0.029. See my website and Github Repo

LinearSVM Breast Cancer Classification

- Used SVM to classify measurements from digitized images of a fine needle aspirate (FNA) as Malignant or Benign. Precision: 0.97, Recall: 0.98, F-1 Score: 0.97 and a False Negative Rate of 1.03%. See my Github Repo

US Army 82nd Airborne Division Combat Engineer

Feb. 2003 - Dec. 2005

Fort Bragg, NC

- Deployed 9 months for Operation Iraqi Freedom and Operation Enduring Freedom
- Team leader: responsible for five soldiers' daily skill training, daily physical preparedness, and safety, allowing them to realize their full potential as Paratroopers
- Managed the radio, the ordinance removal (cache of found weapons and explosives), and the infiltration of buildings in the form of door removal/'door making' for a squad of ten Paratroopers

All Outdoors Raft Guide

May 2008 - Aug. 2012

Lotus, CA

- Managed groups of up to 100 customers as the Raft Trip Leader on Class 4 whitewater on the Middle and South Forks of the American River
- Other duties included Medical Officer, and Swift Water Rescue Officer
- Obtained and maintained EMT, Swift Water Rescue Technician, Wilderness First Responder, and CPR certifications, allowing me to deliver the most enjoyable trip while maintaining the utmost safety possible

EDUCATION

B.S. Physics

Dec. 2013

University of Nevada, Reno, NV

A.A. Outdoor Recreation Leadership

Dec. 2008

Feather River College, Quincy, CA

ACTUARIAL EXAMS

Exam Financial Mathematics

Oct. 23 2014

Exam Probability and Statistics

May 14 2015