

Jamel M. Thomas

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EXPERIENCE

Data Scientist

Feb 2018 – Present

Webb Family Enterprises – CEEM

- Use various ML methods to increase lead generation 50%.
- Develop dashboards to dynamically display KPIs to relevant stakeholders.
- Improve accuracy of sales forecasting to 95%.
- Provide technical leadership for the development of CEEM website.
- Create APIs in AWS for integration in 3rd party software, saving > \$50k in related expenses.

Data Science, Intern

Mar 2017 - Jan 2018

Hewlett-Packard, Enterprise

- Queried user purchase records in Vertica SQL to build a recommender system.
- Utilized traditional model selection techniques and make recommendations based on results.

Data Analyst

Mar 2017 - Jan 2018

Loaves Fishes & Computers, INC.

- Generated company impact statistics for marketing and grant writing efforts. EDA.
- Developed input/output pipeline for data analysis in R. Created data visualizations from a flat files, and publish results to the LFC website.

RESEARCH

Algebraic Combinatorics (C++)

May 2015 - Jan 2016

California State University, Monterey Bay | Dr. Lipika Deka

- Used proof by exhaustion to check an unsolved bijective proof in Combinatorics.
- Presented research with funding from UROC at Joint Mathematics Meeting 2016 in Seattle, WA.

SELECTED PROJECTS

Empty Supermarket Shelf Detection (Python) - *SharpestMinds* | Ray Phan, Ph.D.

April 2019 - Present

- Use Python to scrape 2k+ images from Google, for training / validation / test sets.
- Applied CNNs with a One Shot Learning with Siamese Network Architecture to classify the needs of supermarket shelves.
- Apply data augmentation to increase image dataset for training and avoid overfitting.
- Serve model in Google cloud, with a simple front end.

Credit Card Fraud Detection (R) - *San Diego State University*

Jul 2017 - Aug 2017

- This implementation deals with over 500k observations that are skewed towards not being fraudulent.
- Considered multiple models, and different misclassification weights in order to reduce the false negative rate. Final model overall accuracy > 99%.

Nonparametric Collaborative Filtering (R) - *San Diego State University*

Aug 2017 - Sept 2017

- This implementation follows from an algorithm presented by researchers at MIT using no external libraries

EDUCATION

Master of Science, Statistics (3.9/4.0)

Aug 2016 – Dec 2017

San Diego State University

Bachelors of Science, Mathematics, Pure Concentration (3.8/4.0)

Aug 2012 - May 2016

California State University, Monterey Bay

HONORS AND AWARDS

Outstanding Service Award, CSUMB

Aug 2012 – May 2018

Research Presentation, JMM 2016

United Friends of the Children, \$20,000/5 years

SKILLS

Languages & Frameworks:

- R (expert), Python 2/3 (proficient), SQL (proficient), NoSQL (proficient), HTML & Markdown (proficient), PHP (proficient), JavaScript (proficient), CSS (previous experience), Keras (previous experience), LaTeX (previous experience).

Environments:

- Mac OS, Windows, Jupyter Lab, IDLE, R Studio, Atom, Git

AREAS OF EXPERTISE

Data pipelines, Data mining techniques, Time series forecasting