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   Jun 2017 - Aug 2017
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   Jan 2014 - Feb 2015
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.

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.

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

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 2016   Aug 2012 – May 2016
Research Presentation, JMM 2016
United Friends of the Children, received 2012 - $20,000 for 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