Daniel Griffith

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PROFILE

Experienced Data Scientist with strong statistics and programming background. Expertise in big data, machine learning and data wrangling. Passionate about solving problems with data and communicating results to technical and non-technical audiences. Frequent speaker at Statistical and Quality Improvement conferences.

Expertise:

- 10 years of experience in statistics and data science
- Machine learning, time series forecasting, experimental design, data mining
- Relational, NoSQL databases; structured and unstructured data
- Lean Six Sigma
- Public speaking and technical writing

WORK EXPERIENCE

Minitab, Inc. *2006 to present*

Data Scientist (2016 – present)

- Lead Data Scientist for Minitab, responsible for working with upper management to provide data driven insights utilizing internal and external data
- Led effort to provide in-app desktop analytics to collect data on how users are interacting with Minitab software
- Developed clustering model to segment customers for targeted marketing utilizing data from multiple sources

Software Research Engineer (2014 – 2016)

- Developed Real-Time Statistical Process Control Dashboard using Python to connect streaming data sources into Dashboard and enable rule-based alerts
- Built, tested and deployed a Monte Carlo simulation web application using Python (numpy, scipy, pandas)
- Programmed risk-adjusted control chart in C++ for Minitab Statistical Software to aid in reducing mortality rates in operating rooms
- Investigated machine learning packages (Scikit-learn, OpenCV, Weka) to integrate into the Minitab application to provide neural nets, support vector machines, Bayesian classifiers and more

Statistical Custom Development Leader (2012 – 2014)

- Led a group of statisticians, developers and database architects to provide customized statistical products and dashboards to customers
- Utilized ARIMAX model in R to forecast inventory demands and risks associated with supply constraints

- Used PCA and logistic regression on raw material measurements to predict defective units to aid in choosing quality suppliers
- Developed Python application to migrate data from unstructured Excel file into MySQL with data validation and transformation
- Analyzed customer segmentation patterns in survey responses using k-means clustering in Python

Statistical Trainer/Consultant (2006 – 2012)

- Provided statistical training to corporations as part of their Lean Six Sigma initiatives
- Instructed users on various statistical concepts, including hypothesis tests, regression, ANOVA, time series, logistic regression, multivariate techniques, and more
- Lead statistical consultant for numerous companies solving wide ranging problems from analyzing unstructured data to optimization methods for statistical models
- Provided actionable insights for clients based on data analysis and findings
- Developed Macros and Add-Ins to extend functionality of Minitab Statistical Software

EDUCATION AND SKILLS

B.S Statistics
Virginia Polytechnic Institute and State University, 2006

Technical Skills
Python, R, Minitab, SQL, Tableau, Hadoop, Hive, C++, Node.js

CONFERENCE PRESENTATIONS

Predictive Analytics in Healthcare
Lean Six Sigma World Conference (2016)

Rating College Football Teams: Integrating Minitab with Python
Conference on Statistical Practice (2015)

Interval Censoring Method for Parameter Estimation of Rounded Data
ASQ World Conference (2014)

Logistic Regression for Predicting Readmission Rates among Patients
Institute for Healthcare Improvement (2014)

Coordinate Exchange Algorithm for Creating D-Optimal Designs
Institute of Industrial and Systems Engineers (2012)

ADDITIONAL RESOURCES

Conference presentations/Side Projects:
http://dbgriffith01.github.io/