Mitchell Layton

Statistical Data Science Student at UC Davis

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Experience

Data Analyst Intern

Pacific Gas and Electric Company (PG&E), San Francisco | June 2018 - August 2018

- Developed software scripts by utilizing Python and SQL that increased workflow and productivity of key metric reporting features
- Coordinated and developed a web application prototype dependent upon business requirements using ASP.NET MVC in order to replace an outdated metric reporting system
- Redesigned data relationships and table organization in the metric database to improve the efficiency and reporting capabilities
- Formulated process improvement suggestions through ad hoc analysis and experimental designs

SQL Developer / Database Analyst Intern

California Energy Commission, Sacramento | June 2017 - August 2017

- Developed complex T-SQL queries for the energy products database and created error summary reports of the key issues in order to offer solutions and important changes
- Designed and enforced database constraints to improve business productivity and database efficiency
- Implemented database design features to ensure the efficiency of the relational schema

Technical Skills

Programming (Python & R) — 2 yrs.
- Experienced programmer and thorough understanding of object-oriented programming (classes, objects, functions, modules)
- Programmed machine/statistical learning models—created scripts for data-driven tasks including extraction, manipulation, transformation, computation, and visualization
- Strong understanding of top community packages: Pandas, NumPy, Scipy, scikit-learn, Django, BeautifulSoup, matplotlib, etc.

SQL — 2 yrs.
- Developed complex queries and procedures to satisfy ad-hoc requests regarding energy product databases
- Intermediate working knowledge of SQL language and syntax
- Prototyped and redesigned a new relational database design schema to improve organization and efficiency

Git Version Control
- Intermediate experience with Git as primary version control software: utilized with teams throughout classes and company experience

Statistics & Mathematics
- Bayes, maximum likelihood estimation, probability, nonparametric, regression, hypothesis testing
- Machine Learning Methods: (SVM, k-NN, regression, etc.) & applications with linear algebra

ASP.NET MVC
- Prototyped CRUD application to meet important business requirements
- Developed using the model, view, and controller architectural pattern and implemented a database-first design

HTML, CSS & Javascript
- Intermediate experience with these three languages to create a CRUD application and a kickstart to my personal website
- Experienced with CSS & CSS preprocessors (LESS), and Bootstrap web framework

Personal & Other
- Extremely analytical, self-directed, and organized
- Strong interpersonal communication and teamwork skills

Education

University of California, Davis

Bachelor of Science, Statistics: Statistical Data Science | December 2018 Graduation

- Relevant Coursework: Statistical Data Science (4-part series), Python Programming, R Programming, Statistical Learning & Regression, Machine Learning, Multivariate Data Analysis, Applied Linear Algebra, Mathematical Statistics, Probability Theory, Sampling Theory, Calculus (4-part series)
- NCAA Division I-AA Student-Athlete: UC Davis Football Team | Jan 2015 – December 2018