Mitchell Layton

Data Science Student at UC Davis

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Education

University of California, Davis

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

- **Relevant Coursework:** Statistical Data Science (4-part series), Pythonic Programming, R Programming, Statistical Learning & Machine Learning Methodologies, Linear Regression, Multivariate Data Analysis, Applied Linear Algebra, Mathematical Statistics, Probability Theory, Sampling Theory
- **Athletic Scholarship Recipient:** NCAA Division I Football | Jan 2015 – December 2018

Skills

Proficient : Python *(Pandas, NumPy, scikit-learn, Django, BeautifulSoup, matplotlib, SciPy)*, SQL, R, Data *(ETL, Pipelines, Visualizations)*

Familiar with : Git, ASP.NET MVC, HTML, CSS, C#, MapReduce, Tableau, Excel VBA

Databases : MSSQL, MySQL

- **Python & R**
  - Utilized for data extraction, manipulation, transformation, and visualization for inferential statistics and analysis throughout coursework & internships
  - Developed machine learning & statistical learning models to optimize data prediction and/or classification
  - Pythonic programming, clean code conventions, data structures, complex algorithms
  - Gathered and mined data from multiple different data formats
- **SQL & Tableau**
  - Working knowledge of the SQL language to meet Ad Hoc requests by developing large queries and procedures
  - Aided with the implementation and maintenance of reports in Tableau for scorecard results and insight
  - Strong understanding of relational database schema and database technologies
  - 2 years of experience with complex SQL tasks and data analytics
- **Statistics** - Bayesian statistics, probability theory, nonparametric statistics, statistical inference & testing, linear regression, logistic regression, multivariate data analysis, maximum likelihood estimation.
- **Personal** - Extremely analytical, self-directed, and organized with strong interpersonal, communication and team skills

Experience

Data Analyst Intern

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

- Automated manual processes within the data analytics team by utilizing Python, SQL, and VBA programming in order to improve the data pipeline and reduce time consuming labor
- Coordinated and developed a web application prototype based upon desired features for a new replacement data ETL, reporting, and analysis system using ASP.NET MVC with Entity Framework
- Collaborated with other Electric Business Operation team members to carry out proper planning, implementation, and execution of data driven tasks
- Utilized Python, MSSQL, Tableau, and Excel (spreadsheets, dashboards, & macro sheets)

SQL Developer & Database Analyst Intern

California Energy Commission, Sacramento | June 2017 - August 2017

- Generated solutions to problematic database problems and employee limitations
- Developed complex T-SQL queries against a very large relational database to generate relevant data with accompanying reports of problematic data submittals from energy appliance companies
- Designed and enforced database constraints to improve business productivity and database efficiency

Projects

Final Data Science Projects (4)

- Processed and transformed data in many formats, developed algorithms, maintained & operated on large datasets, solved complex problems, and implemented machine learning models by utilizing mathematical and statistical principles
- Gained advanced working knowledge of web technologies including web apis (REST), relational databases, & programming