Dexter Luu

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WORK EXPERIENCE

UCSF, San Francisco, CA — Jan 2024 – Present
Data Scientist - Energy, Water, and Sustainability

- Implemented a data pipeline and workflow for scope 3 emissions reporting reducing work hours by 75%
- Created energy savings forecasting models with AMI data to influence project implementation strategy
- Collaborated with engineers to implement projects saving more than 500 MWh per year in energy
- Implemented leak detection checks for domestic and irrigation water use lowering response time by 40%
- Developed an energy ML web app to evangelize savings measurement and reduce verification times by 15%

kW Engineering, Oakland, CA — Jun 2022 – Dec 2023
Data Analyst II

- Led end-to-end data science projects with budgets up to $2M, which involved gathering and cleaning data, creating machine learning models, predicting, and delivering analytics findings in reports and visualizations
- Guided strategic decisions for portfolio projects by screening out risky options based on modeling metrics
- Tested and implemented a new outlier detection algorithm resulting in an 18% improvement
- Maintained and further developed nmecr, an open source modeling tool in R used to model building energy use
- Developed nmecpy, an internal Python library used as the energy modeling tool in our SkySpark product

Applied Energy Group, Walnut Creek, CA — Jun 2020 – Jun 2022
Senior Data Analyst

- Evaluated customer performance for California statewide and PG&E specific demand response programs using econometric modeling in R resulting in technical industry publications
- Led Python script development for common data quality checks resulting in a 10% reduction in analysis time
- Implemented clustering methods to match similar customers for control group regression analysis
- Documented data sources, modeling methods, and evaluation metrics for various analyses
- Addressed concerns and comments in analyses from technical reviewers and stakeholders to ensure quality

ASML, San Diego, CA — Jun 2019 – Aug 2019
Manufacturing Data Analyst Intern

- Utilized statistical simulation methods in Python to reduce the cycle time of a manufacturing tool by 15%
- Optimized experimental design for various quality assurance tests resulting in a 20% reduction in material costs
- Implemented ETL processes using Python and SQL to automate weekly reporting saving 5% of work hours
- Presented results, key takeaways, and next steps for internship projects to management and stakeholders

EDUCATION

San Diego State University, San Diego, CA — May 2020
Master of Science in Statistics

University of California, Davis, Davis, CA — Jun 2017
Bachelor of Science in Chemical Engineering

SKILLS

Data Visualization: PowerBI, Tableau, ggplot, Matplotlib, Seaborn, Microsoft Excel, Google Sheets
Techniques: Regression, Decision Trees, Random Forest, Clustering, Neural Networks
Tools and Frameworks: Python (pandas, numpy, scipy, scikit-learn), R, MATLAB, Stata, SQL, Git