Kevala

https://kevalaanalytics.com/

San Francisco, CA

$25/hr, 40 hours/week

June 22 – Aug 14

About

Kevala's goal is to accelerate a clean energy future by making energy-related data meaningful, transparent and broadly accessible. Kevala's team is solving the challenges facing energy market participants interacting with the evolving electricity grid. America's aging electric system is facing rapid transformation from changing technology and the proliferation of distributed energy resources. Kevala is providing data and analysis to accelerate smart investment in a world served by a more robust, environmentally sustainable, effective, and safe grid. The principle of creating a better future by mapping our mutual energy sources and systems is the foundation for everything we do.

Scope

The Data Operations Intern projects will advance Kevala's work in renewable energy data, analytics, and decision support. The analysis will primarily be manifested in data analysis, integration, statistics, and methodology development for Kevala's tools and properties. This project will include load modeling for PV penetration, EV adoption, sited storage, and energy efficiency measures. The candidate will document all methodologies developed and apply the behavior distribution among power consumers in the same geography and demographics. The resulting methodologies will be used by Kevala's software engineers in their ongoing development of the Grid Assessor

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data platform. Additional projects may be included in this work scope based on the intern's subject matter expertise and Kevala's development priorities.

Specific tasks to include (but not be limited to):

- Load modeling - apply behavior distribution among power consumers in the same geography and demographics
- Load modeling - long term load growth/decline forecasting
- Generate probable feeder paths for underground (and not visible) feeders
- Generate probable locations for rooftop PV
- Generate probable locations for EV owners
- Split out load components (EV, PV, demand, battery) from net load
- Identify characteristic shapes of load contributors (EV charging, battery charging, refrigerator, electric dryer, air conditioning, electric heating, oven, etc) within a load curve

Qualifications

- Pursuing a Masters of Science in a related Engineering field (preferred) or entering Senior year in Bachelors of Science, Electrical Engineering
- Demonstrated experience in (or willingness to learn) energy management/ load modeling methodologies
- Demonstrated experience in (or willingness to learn) machine learning/data science methodologies

Students: Click here to visit site and apply

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