



Dexter is looking for a bright and passionate Machine Learning intern

Dexter Energy Services (DES) is a young software company that develops machine learning software for large energy consuming industrial clients. The software increases profits while actively contributing to a better environment. We use machine-learning algorithms that forecast energy prices, energy demand and sustainable produced electricity, which then is used to optimally dispatch energy-heavy assets



Context

Power grid stability and renewable energy integration is expected to become jeopardized as a result of the volatile and unpredictable renewable energy production as well as electrification (EV's, E-boilers, heat pumps). Grid balancing costs are expected to increase. Applying demand-side management helps to balance the grid and is financially incentivized by grid balancing parties (TenneT in NL). This is a financial opportunity for industrial companies and saves a lot of emissions compared to grid-balancing by gas and coal-fired plants.

Our solution

Energy-heavy companies like paper or food producers have expensive assets. Plant managers want to maximize profits on their assets but don't know how. Dexter has built a software that forecasts energy prices using machine learning and optimally dispatches these assets.

Machine Learning Intern (m/f)

As our Machine Learning Intern (m/f) you will help us reinventing energy management by playing an active part in our development team. You will work with us and our partners to design and implement machine learning and time series cleaning and adjustment algorithms to make robust, automatic and scalable products for forecasting short-term electricity prices, sustainable energy production and electricity consumption. Additionally you will help us to optimize the steering of flexible appliances based on forecasts and operational boundaries (e.g. a cold store). Your Tasks:

- You build algorithms for cleaning, decomposing and disaggregating data
- You invent and implement suitable time series forecasting algorithms and classification algorithms
- You bring our algorithms into a production environment

Your Profile:

- You are studying Computer Science, Software Engineering, Electrical Engineering, Mathematics or Physics
- You have a strong affinity with machine learning
- You have (some) experience with time series forecasting and building classification algorithms
- You have strong experience in Python, Pandas, scikit-learn and experience with SQL and NoSQL databases
- You are willing to learn with us continuously to stay up to date with the latest technologies
- Experience in deep learning frameworks such as Tensorflow is a plus
- Domain knowledge in energy related topics is a plus
- First experience with restless flask APIs is a plus

Our Offer:

Dexter Energy Services offers you responsible and versatile tasks in a highly motivated & entrepreneurial team (based in Amsterdam or Ede). Here you will find minimal hierarchies, quick decision-making, an inviting workplace, a competitive remuneration and last but not least a pleasant working atmosphere. Sounds exciting? If you are the one we are looking for, then please send us a short motivation, your CV and examples of your work to luuk@dexterenergy.nl. For more information about us take a look at our website www.dexterenergy.nl. Still have questions? Don't hesitate to call at +31 (0) 6 13 32 28 89.