

Development of an Automated Geo Data Processing Pipeline for Machine Learning

About Ocell

Ocell builds innovative earth observation solutions for manned and unmanned aerial vehicles. We invented a new approach for collecting aerial data with higher resolutions than satellites and for bigger areas than what drones could deliver. Ocell uses various machine learning approaches to extract valuable information from these data sets.

What we want to achieve

The amounts of data we process, need to be embedded in an efficient processing pipeline. Aspects like training-test-sample split, shuffling and data management need to be implemented in an efficient and error-tolerant way in order to ensure the best machine learning results. The most interesting challenge will be the implementation of Bayesian Hyperparameter Optimization.

What we offer

- Early involvement in a startup
- A fascinating mix of HW and SW
- Self-responsible work style
- Having a say in technical decisions
- Guidance and support
- Supervisor: Prof. Diepold (Chair for Data Processing - EI)

What we expect

- Motivation and technically adeptness
- Programming experience in Python
- Understanding of data handling for machine learning
- EI73141/EI7223/EI71040/EI71030 or other relevant modules

If you are interested please contact us: info@ocell.io