Deep Learning Hyper-Parameter Search and Training Scheduler

About Ocell

OCELL is a TUM spin-off focused on generating and interpreting extremely high-resolution aerial imagery with its own network of professional pilots and AI techniques. We’re currently mostly serving forestry customers but expanding our business and services to multiple additional use-cases in urban areas. OCELL already generated and analyzed hundreds of terrabytes of data with advanced AI algorithms.

Objective

The manual search for hyperparameters is a difficult and extremely time-consuming task in machine learning. Automated approaches like Bayesian Hyperparameter Optimization enable an automated and efficient way to find the best hyperparameters. A scheduler can constantly run the training pipeline to further optimize the parameters and use up computing time most efficiently. Together, we want to implement those building blocks into our machine learning pipeline.

What we offer

• Early involvement in a startup
• Fascinating data sets and ML problems
• Self-responsible work style
• Having a say in technical decisions
• Guidance and support

What we are looking for

• Experienced interns or IDP groups of at least two members
• Motivation and technical adeptness
• Programming experience in Python
• Initiative and self-responsibility
• Understanding of data handling and machine learning
• Fascination for startups
• EI70360/EI70310/ or other relevant modules. Up for discussion.

If you’re interested, please contact us over info@ocell.io or LinkedIn