

IDP

OCELL

Development of a scalable Server Backend for Aerial Imagery

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

With our network of pilots we generate multispectral imagery of several ten thousand hectares of farmland and forests. This imagery can be used to extract plant health information preventing catastrophic crop failures. Our datasets need to be stored efficiently in large online databases for worldwide easy access, dynamic loading in browsers and forwarding to machine learning pipelines. An efficient database has to be implemented on AWS servers in order to serve all queries.

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
- Experience with data bases or AWS
- EI7001/EI7223/EI71040 or other relevant modules

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

Gefördert durch:



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