



UiO : Universitetet i Oslo

WS AI-based data-driven science. UiO. 2018-09-07

**Status UiO hub-node project & NFR
proposal**



UiO hub-node project

Strategisk satsning innen maskinl ring, deep learning og data science for forskning og undervisning ved UiO.

- Provide a common platform and service exploiting AI / ML / DL
 - Some hardware + popular software stacks
 - Building up competence in using ready-to-use cloud services (Google Cloud, IBM academic cloud, MS Azure, Amazon Web Services)
 - Building up competence in advising researchers and students

UiO hub-node project (status)

Strategisk satsning innen maskinlæring, deep learning og data science for forskning og undervisning ved UiO.

- Approved in June
- Since then preparations
 - Workshop
 - Technical solutions: jupyterhub.uio.no
 - Possible HW upgrades: UH-iaaS
 - Structured user interaction
 - Match varying demands, level of expertise, determine key problems

UiO hub-node project (next)

Strategisk satsning innen maskinl ring, deep learning og data science for forskning og undervisning ved UiO.

- Evaluate WS feedback
- Kick-off project with milestones for next 6-12 months
 - Work with first set of use cases (research & teaching)
 - Possibly upgrade HW base
 - Consider using existing HW at UiO
 - Consider using existing resources at Sigma2
 - Possibly get access to Cloud resources
 - Look into course needs

NFR project (2020-2024)

Norwegian Facility for Applied Machine Learning

- Establish a national facility enabling data scientists to create high-quality models applying state-of-the-art machine learning (ML) methods in a highly efficient manner
 - Hardware tailored at ML tasks
 - Open source AI frameworks
 - Highly skilled and trained professionals which consult scientists
- ➔ balanced budget for hardware and competence building

NFR project (status)

Norwegian Facility for Applied Machine Learning

- Proposal being written.
- Partners: UiO, UiB, UiT, SINTEF Digital, UNINETT Sigma2 AS
- Will probably come back to workshop participants concerning use cases, letters of support.

How can you help the projects?

- Provide use cases
- Work with IT staff to enable your use cases
... eventually to shape the platform and service offered to you and other users
- Let other users know about the projects

