

Supporting machine learning and deep learning in the European Open Science Cloud (EOSC).

Many research areas are being transformed by the adoption of machine learning and deep learning techniques. Research e-Infrastructures should not neglect this new trend, and develop services that allow scientists to employ these techniques, effectively exploiting existing computing and storage resources.

The DEEP-Hybrid-DataCloud is paving the path for this transformation, providing machine learning and deep learning practitioners with a set of tools that allow them to effectively exploit the existing compute and storage resources available through EU e-Infrastructures for the whole machine learning cycle.

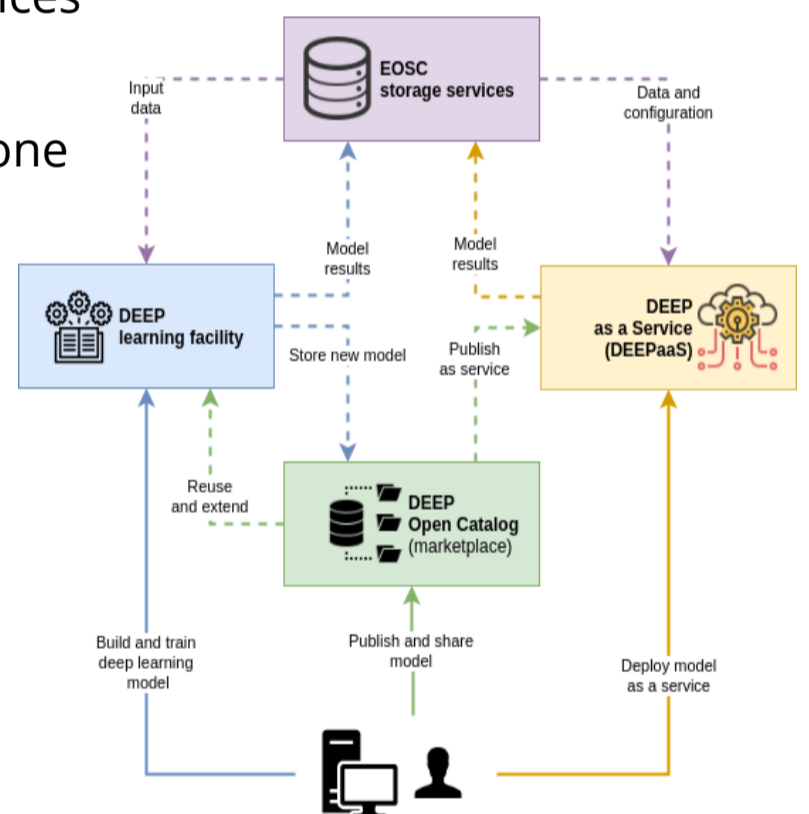
SERVICES FOR THE WHOLE MACHINE LEARNING CYCLE:

The DEEP-Hybrid-DataCloud project provides services that allow scientists to:

- **Build** a model from scratch or using an existing one
- **Train, test** and **evaluate** a model
- **Deploy** and **serve** as a service
- **Share** and **publish** a model

KEY TECHNOLOGIES:

- Docker container based
- Transparent GPU access
- HPC integration
- Serverless architectures
- Transparent hybrid cloud deployments through PaaS layer
- Marketplace containing existing models ready to use
- Standard APIs for model training, testing and inference
- Integration with EOSC data services



Available through the EOSC portal:
<http://bit.ly/deep-training-eosc>