deep
Hybrid DataCloud

Designing and Enabling E-infrastructures for intensive Processing in a Hybrid DataCloud

Supporting artificial intelligence (machine learning and deep learning), parallel post-processing of very large data, and analysis of massive online data streams over distributed e-Infrastructures in the European Open Science Cloud (EOSC)

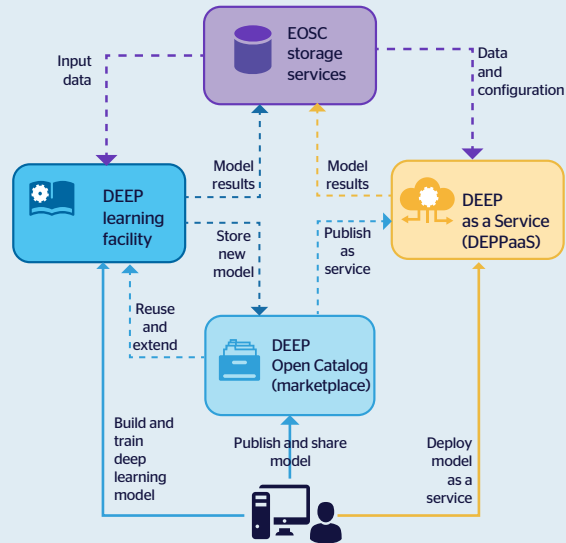www.deep-hybrid-datacloud.eu

GOALS

The goal of the project is to prepare a new generation of e-infrastructures that harness latest generation technologies, **supporting machine learning** and **deep learning**. The project provides the corresponding services to lower the adoption barriers for new communities and users, satisfying the needs of both research, education communities and citizen science.

SERVICE CYCLE

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

- **Build a machine learning** from scratch or using an existing one

- **Train**, **test** and **evaluate** a model

- Easily **deploy** a module and **serve** it **as a service**

- **Share** and **publish** a model

GET ACCESS

You can request access to our services through the **EOSC Portal**: http://bit.ly/deep-training-eosc

OPEN CATALOG

DEEP-Hybrid-DataCloud is a project that aims to deliver a framework to easily develop **Machine Learning** and **Deep Learning** modules on top of e-Infrastructures.

In the DEEP Open Catalog you can find ready to use modules in a variety of domains. These modules can be executed on your local laptop, on a production server or on top of e-Infrastrucutres supporting the DEEP-Hybrid-DataCloud stack. https://marketplace.deep-hybrid-datacloud.eu

USE CASES

The collection of Use Cases in the DEEP-HybridDataCloud project have been chosen from several communities and different scientific disciplines. They provide a relevant sample of demanding requirements for the DEEP as a Service Platform.

Lattice QCD for massive data analysys

Massive Online DataStreams

Plant Classification with Deep Learning

Diabetic Retinopathy detection

Deep Learning application for monitoring through satellite imagery

deep-info@listas.csic.es

@DEEP_eu

DEEP Hybrid Data Cloud