

The ML_INFN Initiative

Wednesday, March 23, 2022 4:00 PM (30 minutes)

The ML_INFN initiative (“Machine Learning at INFN”) is an effort to foster Machine Learning activities at the Italian National Institute for Nuclear Physics (INFN). In recent years, AI inspired activities have flourished bottom-up in many efforts in Physics, both at the experimental and theoretical level. Many researchers have procured desktop-level devices, with consumer oriented GPUs, and have trained themselves in a variety of ways, from webinars, books, tutorials. ML_INFN aims to help and systematize such effort, in multiple ways: by offering state-of-the art hardware for Machine Learning, leveraging on the INFN-Cloud provisioning solutions and thus sharing more efficiently GPU-like resources and leveling the access to such resources to all INFN researchers, and by organizing and curating Knowledge Bases with production grade examples from successful activities already in production. On top of that, training events have been organized for beginners, based on existing INFN ML research and focussed on lowering the bar for beginners. We report on the status of the project after two years of intense activity and the plans for its conclusion and legacy.

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