

Machine learning and AI in AGATA - how to adapt IT infrastructure

What has been learned and already done (AGATA-NEDA campaign)

With high level libraries, one can implement various kind of algorithms

Containerization is another powerful tool

We already have tested such workflow with DCOD

Inference in general requires less computing power → CPU can be enough
GPU requires moving data

→ bunch of events from CPU/Network to GPU card

→ strong impact on the DAQ box architecture

What is under development

We have the DAQ box @ Orsay to test AGATA's ML based workflow ...

Acceleration of data transfert using dpdk