

# CERN IT Machine Learning Infrastructure Workshop - Summary

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# Summary

5 presentations from different IT services / areas

7 short presentations from different ML applications in CERN IT

Final discussion on common areas of work and actions

# Actions

## → **Propose ML initiatives with all business engagement units**

To help track requirements from the different communities

To assert the offering in CERN IT is aligned with those requirements

## → **Improve GPU sharing between different IT services**

Given the scarcity of this type of resource

With the short-term goal of optimizing the overall usage of the existing infrastructure

Note: A short term task, split from the goal of thinking the future ML infrastructure

# Actions

→ **Investigate integration of public cloud resources**

Low level (GPUs) as well as higher level services

Consider usage reporting, accounting, etc

→ **Ensure ML needs are taken into account in long term resource procurement**

Access to public cloud services, procurement of accelerators

→ **Improve dataset and model registry and bookkeeping**

Both local and external (reusable) models

# Actions

## → **Organize a second workshop**

Focus on use case and requirements CERN wide

Build on feedback from the different business engagement initiatives, and others