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Machine learning in a test bench

Friday 13 June 2025 16:30 (1 hour)

About the lecture:

We will discuss how we can build, use, and deploy modern machine learning and data analysis methods to quench diagnostics data. The lecture will discuss certain analysis, data curation, and selection procedures that are possible to train a machine learning model. We will also discuss how to practically apply these techniques to data at your test bench.

About the speaker:

Maira is an Artificial Intelligence Associate at Fermi National Accelerator Laboratory. She received her B.A. in Mathematics from Harvard University in 2023. She works on applying real time AI for to data processing and diagnostic problems on a DUNE, APS-TD under the DOE AI4HEP project. In addition, she also is involved in a R&D efforts for efficient model architectures and surrogate modeling for accelerator monitoring applications.

Presenter: KHAN, Maira (Fermi National Accelerator Laboratory)