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Piz Daint on Alps: a modern day view of extreme computing and data in science

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High Performance Computing, i.e. scientific computing where performance matters, has been somewhat intimidating for non-experts. With the recent surge of machine learning, HPC technologies have found massive adoption in the commercial software world, which in turn allows us to make better use of extreme-scale computing and data in scientific workflows. Alps is how we call the new supercomputing infrastructure at CSCS, on which we are providing a practical synthesis of cloud-native and HPC, as well as AI technologies for science. We will discuss our plans, opportunities to better deal with large-scale scientific data and its analysis, and what we believe are the main investment hat domain sincere communities should be making now.

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