HPC.NRW

aiXcelerate 2021: Part II - Machine Learning (ML)

HPC.NRW Competence Network

Further Links and Literature

aiXcelerate 2021: Part II - Machine Learning (ML)

Further Links and Literature

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- PyTorch
  - https://pytorch.org/tutorials/beginner/pytorch_with_examples.html
  - https://pytorch.org/tutorials/intermediate/ddp_tutorial.html
  - https://pytorch.org/tutorials/recipes/recipes/tuning_guide.html
  - https://github.com/NERSC/sc21-dl-tutorial/
  - https://towardsdatascience.com/7-tips-for-squeezing-maximum-performance-from-pytorch-ca4a40951259
- TensorFlow
  - https://www.tensorflow.org/tutorials/distribute/keras
  - https://www.tensorflow.org/tutorials/distribute/multi_worker_with_keras
  - https://www.tensorflow.org/guide/distributed_training
  - https://keras.io/guides/distributed_training/#multiworker-distributed-synchronous-training
  - https://www.tensorflow.org/guide/profiler#overview_page

Further Links and Literature

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- Python virtualenv
  - https://docs.python.org/3.8/tutorial/venv.html
- Conda
  - https://docs.conda.io/en/latest/miniconda.html
  - https://docs.conda.io/projects/conda/en/latest/user-guide/install/linux.html
- Singularity
  - https://sylabs.io/guides/3.9/user-guide/
  - https://sylabs.io/guides/3.9/user-guide/cli.html

Further Links and Literature

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- Scikit-learn
  - https://scikit-learn.org/stable/
  - https://jupyter-docker-stacks.readthedocs.io/en/latest/using/selecting.html#jupyter-datascience-notebook