

# Useful links on Getting Started with Parallel Programming for AI/ML and HPC

## Python (with PyTorch)

**Parallel and Distributed Training in PyTorch (Official Docs)**

[https://pytorch.org/tutorials/intermediate/ddp\\_tutorial.html](https://pytorch.org/tutorials/intermediate/ddp_tutorial.html)

**HPC Carpentry: Parallel Programming in Python**

<https://hpc-carpentry.github.io/hpc-python/>

## R (for Data Science and Statistics)

**R doParallel: A Brain-Friendly Introduction to Parallelism in R**

<https://www.appsiion.com/post/r-doparallel>

**CRAN Task View: High-Performance and Parallel Computing with R**

<https://cran.r-project.org/web/views/HighPerformanceComputing.html>

## C/C++ and General HPC Concepts

**Using OpenMP with C**

<https://curc.readthedocs.io/en/latest/programming/OpenMP-C.html>

**LLNL HPC Tutorials (MPI, CUDA, etc.)**

<https://hpc-tutorials.llnl.gov>