Using Python at LRZ (2019 Apr 12)

As a general-purpose programming language with a growing user-base amongst data scientists, Python is increasingly used for data analysis and machine learning applications at the Leibniz Supercomputing Centre (LRZ).

In this half-day course several techniques and best practice examples will be demonstrated - empowering participants to use Python effectively on LRZ systems like the Linux Cluster and the upcoming LRZ cloud infrastructure.

Topics covered:
(subject to change)

- Installation of Python packages and libraries
- Jupyter Notebooks on the Linux Cluster and the Compute Cloud
- Simple ML applications on the GPU Cloud and the DGX-1 using TensorFlow and Keras
- Parallel Programming on the Linux Cluster
- High quality scientific plotting
- Batch Programming using Slurm and Python on the Linux Cluster