Instructions tensorflow et al. on studat (Linux) computers forskarhuset floor 7.

Log in using your CID

start a terminal window
Check that you have bash as default shell: $0
Otherwise change to bash: bash
make a directory for your course material: mkdir NAME and : cd NAME to set up virtual environment following instructions below:

point out lib-files for Cuda Toolkit (do each time):
export LD_LIBRARY_PATH=/chalmers/sw/sup64/cuda_toolkit-9.0.176.4/lib64
If you get error on this, try:
bash -c “export LD_LIBRARY_PATH=/chalmers/sw/sup64/cuda_toolkit-9.0.176.4/lib64”
create new virtual environment 'tensor_flow' (first time):
python3.6 -m venv tensor_flow
activate virtual environment (every time):
source tensor_flow/bin/activate
install pip3 in virtual environment (first time):
python -m ensurepip
install tensorflow.gpu in virtual environment (first time):
pip3 install tensorflow.gpu

install jupyter nortebook:
python -m pip install jupyter
keras:
python -m pip install keras
matplotlib:
python -m pip install -U matplotlib
run notebook (should open automatically in firefox)
jupyter notebook &

(nvidia-smi (visa GPU processer))

To deactivate virtual environment efter session:
deactivate

While running GPU the system might complain that the GPU memory is used up, this is a feature of Tensorflow that allocates the full GPU memory, so this can be ignored.