

Deep Learning in Medicine

BMSC-GA 4493, BMIN-GA 3007

Lab 1: PyTorch and Packages Setup

In this lab, we will be walking through the steps to setting up the environment for the course. We would mainly be using PyTorch, a deep learning package for Python, for this class. Please step through the following guidelines.

1. Install Anaconda from <https://www.anaconda.com/download/>. Select the version for your operating system.
2. For macOS and Linux, open up terminal. For Windows, open Anaconda Prompt from Start.
3. Create a conda environment by (may take a while)
`>> conda create -n py35 python=3.5 anaconda`
4. Activate the environment
`>> conda activate py35`
5. Install the required packages using the command:
`>> conda install <package_name>`
For the purpose of this course, please install the following packages:
 - numpy
 - pandas
 - scikit-learn
 - scipy
 - matplotlib
 - pytorch
 - **macOS/Linux:** follow the guidelines on <http://pytorch.org/>. Select your OS, conda, and python version 3.5. Leave the cuda option as 8.
 - **Windows 10:**
`>> conda install -c peterjc123 pytorch`
 - **Previous Windows versions:**
`>> conda install -c peterjc123 pytorch_legacy`
6. Open up Jupyter notebook using the command
`>> jupyter notebook`
from either your terminal or Anaconda Prompt. Note that Jupyter notebook uses the current directory as the root directory. If you want to specify a root directory, you can use
`>> jupyter notebook --notebook-dir path/to/directory`
7. Clone repo using git
`>> git clone https://github.com/nyumc-dl/BMSC-GA-4493-Spring2018.git`
8. Demo on Jupyter notebook