

PyTorch Tutorial

CS 330: Deep Multi-Task and Meta Learning

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A few comments

- Tutorial objective
 - Introduce/refresh key PyTorch concepts for success in CS 330
 - Why? While you can [train certain models for certain applications in <10 lines of code](#), we need more flexibility
 - **NOT** the be-all and end-all resource on PyTorch!
- PyTorch 1.9 documentation: <https://pytorch.org/docs/1.9.0/>
 - When in doubt, consult this

Installation: local (Linux)

1. Navigate to your homework/project directory
2. Create an environment: “virtualenv --python=/usr/bin/python3.7 env”
 - You need to have installed virtualenv and your desired Python version for this to work
3. Activate the environment: “source env/bin/activate”
 - Verify using “which python”
4. Install Python dependencies via pip: “pip install -r requirements.txt”
 - We will give you requirements.txt for each homework
5. Install PyTorch
 - Use the command builder at <https://pytorch.org/>
 - Copy and paste into command line

PyTorch Build	Stable (1.9.1)	Preview (Nightly)	LTS (1.8.2)	
Your OS	Linux	Mac	Windows	
Package	Conda	Pip	LibTorch	Source
Language	Python		C++ / Java	
Compute Platform	CUDA 10.2	CUDA 11.1	ROCm 4.2 (beta)	CPU
Run this Command:	pip3 install torch==1.9.1+cpu torchvision==0.10.1+cpu torchaudio==0.9.1 -f https://download.pytorch.org/whl/torch_stable.html			

To the code!