Instructions about running a simple LSTM model in PyTorch

Installation recommendations:

There is **no separate PyTorch GPU library** like pytorch-gpu. You choose the CUDA version explicitly during installation of PyTorch. However, you must manually install compatible CUDA/cuDNN versions with TensorFlow.

Windows: It is recommended, but not required, that your Windows system has an NVIDIA GPU in order to harness the full power of PyTorch’s CUDA support.

Mac: PyTorch can be installed and used on macOS.

Linux: It is recommended, but not required, that your Linux system has an NVIDIA or AMD GPU in order to harness the full power of PyTorch’s [CUDA](https://developer.nvidia.com/cuda-zone) [support](https://pytorch.org/tutorials/beginner/blitz/tensor_tutorial.html?highlight=cuda&__hstc=76629258.724dacd2270c1ae797f3a62ecd655d50.1746547368336.1746547368336.1746547368336.1&__hssc=76629258.10.1746547368336&__hsfp=2230748894#cuda-tensors) or [ROCm](https://rocm.docs.amd.com/" \t "_blank) support.

**CUDA** → for **NVIDIA** GPUs only

**ROCm** → for **AMD** GPUs only

CUDA:

* **Sends data** to the GPU
* **Runs computations** on the GPU
* **Brings the result back** to the CPU

Installation on my Windows Laptop:

Go to this link: <https://pytorch.org/get-started/locally/>

A screenshot of a computer

AI-generated content may be incorrect.

As you can see, PyTorch is compatible with Python >=3.9.

First step: conda create -n pytorch python=3.10

Then, conda activate pytorch

Then, copy the command in the above figure. It also installs the appropriate CUDA platform.

By doing that, PyTorch starts to be installed:

A screen shot of a computer screen

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After successful installation, to check whether everything is ok:

import torch

print('torch version: ', torch.\_\_version\_\_)

print('CUDA available: ', torch.cuda.is\_available())

print('GPU device: ', torch.cuda.get\_device\_name())

it gives something like this:  
  
torch version: 2.7.1+cu118

CUDA available: True

GPU device: NVIDIA GeForce GTX 960M