Install Torch&&Torchvision

Instructions before use: This tutorial is aimed at users who have built their own environment. If you are using the Yahboom version of the image, you can ignore it and not read it

The system configuration of this tutorial is shown in the figure:

```
jtop 10W|CPU 9.3%|GPU 0.0%
                                                          a
 M
jtop 4.2.1 - (c) 2023, Raffaello Bonghi [raffaello@rnext.it]
Website: https://rnext.it/jetson_stats
Platform
                                  Serial Number: [s|XX CLICK TO READ XXX]
 Machine: aarch64
                                  Hardware
 System: Linux
                                   Model: NVIDIA Orin Nano Developer Kit
 Distribution: Ubuntu 20.04 focal 699-level Part Number: 699-13767-0004-300 N.
 Release: 5.10.104-tegra
                                  P-Number: p3767-0004
 Python: 3.8.10
                                  Module: NVIDIA Jetson Orin Nano (4GB ram)
                                  SoC: tegra23x
Libraries
                                  CUDA Arch BIN: 8.7
 CUDA: 11.4.315
                                   Codename: P3768
 CUDNN: 8.6.0.166
                                   L4T: 35.3.1
 TensorRT: 8.5.2.2
                                  Jetpack: 5.1.1
 VPI: 2.2.7
 Vulkan: 1.3.204
                                  Hostname: unbutu
 OpenCV: 4.5.4 with CUDA:
                                  Interfaces
                                   wlan0: 192.168.2.104
                                   docker0: 172.17.0.1
1ALL 2GPU 3CPU 4MEM 5ENG 6CTRL 7INFO Quit
                                                                  (c) 2023, RB
```

1.install torch

Find the WHL file in the torch folder under the attachment and upload it to jieson orinano

```
pip3 install torch-xxx.whl
```

Note: If you directly install the pip3 store without a GPU version, subsequent training models may report errors. To find a GPU version, you must go to the Jetson official website Wait for the installation to complete

```
jetson@ubuntu: ~/Desktop Q = - □ S

jetson@ubuntu: ~/Desktop$ python3

Python 3.8.10 (default, Mar 13 2023, 10:26:41)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import torch
>>> print(torch.__version__)
1.12_0a0+2c916ef.nv22.3
```

2.install torchvision

Find the version corresponding to torch through this website https://github.com/pytorch/vision

If the torch is found to be 1.12, then the torch vision is 0.13.0

```
sudo apt-get install libjpeg-dev zlib1g-dev libpython3-dev libavcodec-dev libavformat-dev libswscale-dev git clone --branch v0.13.0 https://github.com/pytorch/vision torchvision cd torchvision export BUILD_VERSION=0.13.0 python3 setup.py install --user
```

Wait for the installation to complete

```
jetson@ubuntu:~/Desktop$ python3
Python 3.8.10 (default, Mar 13 2023, 10:26:41)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import torchvision
>>> print(torchvision.__version__)
0.13.0
>>>
```