

sudo reboot

Then try:

bash

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nvidia-smi

✓ 2. Check Driver Version

Run:

bash

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cat /proc/driver/nvidia/version

Then check your installed user-space library:

bash

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ls /usr/lib/x86_64-linux-gnu/libnvidia-ml.so*

If they don't match, there's a version mismatch.

✓ 3. Reinstall NVIDIA Driver (Safest Fix)

Reinstall the correct driver:

bash

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sudo apt purge nvidia*

sudo apt update

sudo ubuntu-drivers autoinstall

sudo reboot

This auto-installs the correct driver for your GPU.

Then verify again:

bash

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nvidia-smi

✓ 4. Use Matching CUDA Version

Make sure your CUDA toolkit matches the driver version. You can check compatibility here:

NVIDIA CUDA Compatibility Chart

Would you like help identifying which exact driver version your GPU needs? Just let me know your GPU model (lspci | grep -i nvidia helps).

You said:

cuda-8.0-linux-x64-v5.0-ga.tgz

ChatGPT said:

You're referring to the cuDNN v5.0 package for CUDA 8.0:

File: cuda-8.0-linux-x64-v5.0-ga.tgz

Meaning:

cuda: NVIDIA CUDA Deep Neural Network library

8.0: built for CUDA 8.0

v5.0-ga: cuDNN version 5.0, General Availability release

linux-x64: for 64-bit Linux

.tgz: compressed tarball

✓ How to Install cuda-8.0-linux-x64-v5.0-ga.tgz

1. Extract the File

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```
tar -xvzf cuda-8.0-linux-x64-v5.0-ga.tgz
```

This gives you folders like cuda/include and cuda/lib64.

2. Copy cuDNN Files into CUDA Directory

bash

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```
sudo cp cuda/include/cudnn.h /usr/local/cuda/include/
```

```
sudo cp cuda/lib64/libcudnn* /usr/local/cuda/lib64/
```

```
sudo chmod a+r /usr/local/cuda/include/cudnn.h /usr/local/cuda/lib64/libcudnn*
```

3. Verify cuDNN Installation (Optional)

You can write a small program or check using TensorFlow/PyTorch later.

Alternatively, list the cuDNN library:

bash

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```
ls -l /usr/local/cuda/lib64/libcudnn*
```

4. Add to Environment (if not already)

Make sure LD_LIBRARY_PATH includes /usr/local/cuda/lib64:

bash

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```
export LD_LIBRARY_PATH=/usr/local/cuda/lib64:$LD_LIBRARY_PATH
```

Add that to your ~/.bashrc or ~/.zshrc to persist.

Would you like a sample cuDNN test program in C to verify if it's working?

ChatGPT can make mistakes. Check important info. See [Cookie Preferences](#).