# **TensorFlow**

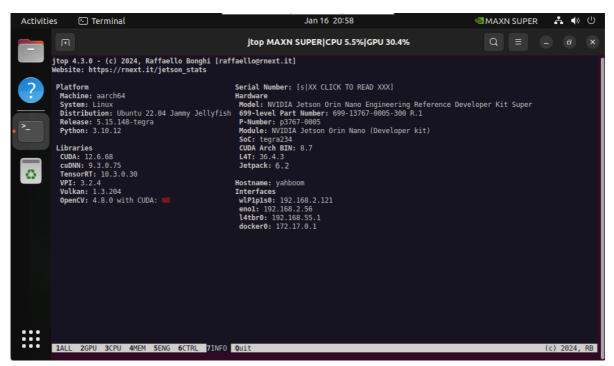
#### **TensorFlow**

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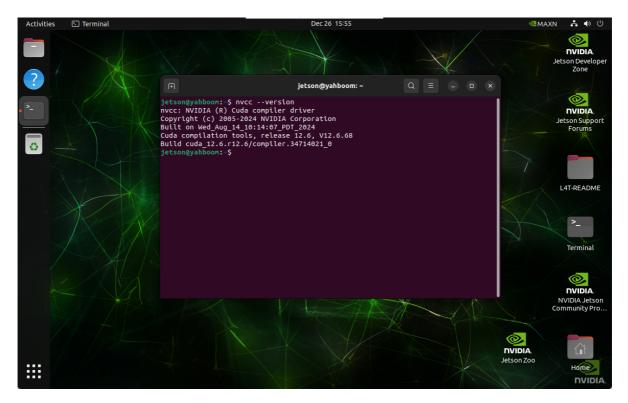
TensorFlow is an end-to-end machine learning and deep learning framework developed and open-sourced by Google, used to build and train various types of machine learning models.

# 1. System information



**Query CUDA version** 

nvcc --version



### 2. Install TensorFlow

To install TensorFlow, choose either offline or online!

### 2.1. Offline installation

Manually go to the download website to download the specified TensorFlow version.

Download URL: <a href="https://developer.download.nvidia.com/compute/redist/jp/v61/tensorflow/">https://developer.download.nvidia.com/compute/redist/jp/v61/tensorflow/</a>

cd Downloads/

sudo pip3 install tensorflow-2.16.1+nv24.08-cp310-cp310-linux\_aarch64.whl

## 2.2, Online installation

sudo pip3 install --extra-index-url
https://developer.download.nvidia.com/compute/redist/jp/v61
tensorflow==2.16.1+nv24.08

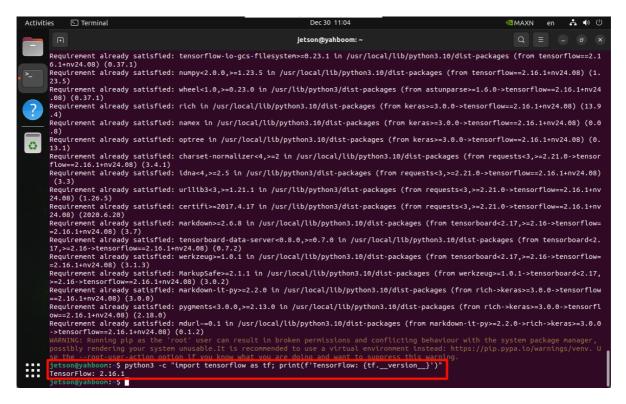
### 2.3, Install Numpy

Install the specified version of Numpy: the later YOLO11 also requires this version of Numpy

sudo pip install numpy==1.23.5

# 3. Verify installation

python3 -c "import tensorflow as tf; print(f'TensorFlow: {tf.\_\_version\_\_})"



# **References**

https://docs.nvidia.com/deeplearning/frameworks/install-tf-jetson-platform/index.html

https://pypi.jetson-ai-lab.dev/