**TVM INSTALLATION**

**Step -1**

cmake installation

<https://www.linuxcapable.com/install-cmake-on-ubuntu-20-04-lts/>

(use option 2 to to install cmake 3.22)

**Step -2**

LLVM installation

<https://llvm.org/docs/GettingStarted.html>

* git clone https://github.com/llvm/llvm-project.git
* cd llvm-project
* mkdir build
* cd build
* cmake -DCMAKE\_BUILD\_TYPE=Release -DllVM\_ENABLE\_PROJECTS=lld -DCMAKE\_INSTALL\_PREFIX=/usr/local ../llvm-project/llvm
* make -j8 && sudo make install

**Step -3**

TVM installation

[**https://tvm.apache.org/docs/install/from\_source.html**](https://tvm.apache.org/docs/install/from_source.html)

**Follow the procedure given from the website**

**Make an edit in “config.cmake” file**

set(USE\_CUDA ON)

set(USE\_CUDNN ON)

set(USE\_LLVM ON)

set(USE\_CUBLAS ON)

* cd build
* cmake ..
* make -j8

**Step -4**

## TVM Python Package Installation

export TVM\_HOME=/path/to/tvm

export PYTHONPATH=$TVM\_HOME/python:${PYTHONPATH}

pip3 install --user numpy decorator attrs

pip3 install --user tornado

pip3 install --user tornado psutil 'xgboost<1.6.0' cloudpickle

**Step-5**

Change some files in “/tvm/include/tvm/runtime”

C\_runtime\_api.h

String.h

Array.h

From the given github <https://github.com/Ragu2399/TVM_installation/>

**Step-6**

Dlpack installation

[**git clone https://github.com/dmlc/dlpack.git**](https://github.com/dmlc/dlpack.git)

cd dlpack

cmake .

Make -j8

**Python Dependencies INSTALLATION**

For all python dependencies follow the link below to install

[**https://github.com/yqlbu/jetson-packages-family**](https://github.com/yqlbu/jetson-packages-family)