If using a virtual machine provided by Yahboom, you can skip this course

0.Mediapipe Install

1. Installation steps for media pipe

1. Run the following command on a Linux system with a hub version of ROS2

```
sudo apt update
pip install   numpy
pip3 install  opencv-python
pip3 install  opencv-contrib-python
pip install  mediapipe
pip3 install  dlib
```

If there is an error indicating that the module cannot be found in Python, you can use this command to install the corresponding third-party module

```
pip3 install third-party module
```

If the package for ROS2 cannot be found, you can use this command to install the corresponding package

```
sudo apt install ros-humble-Package
```

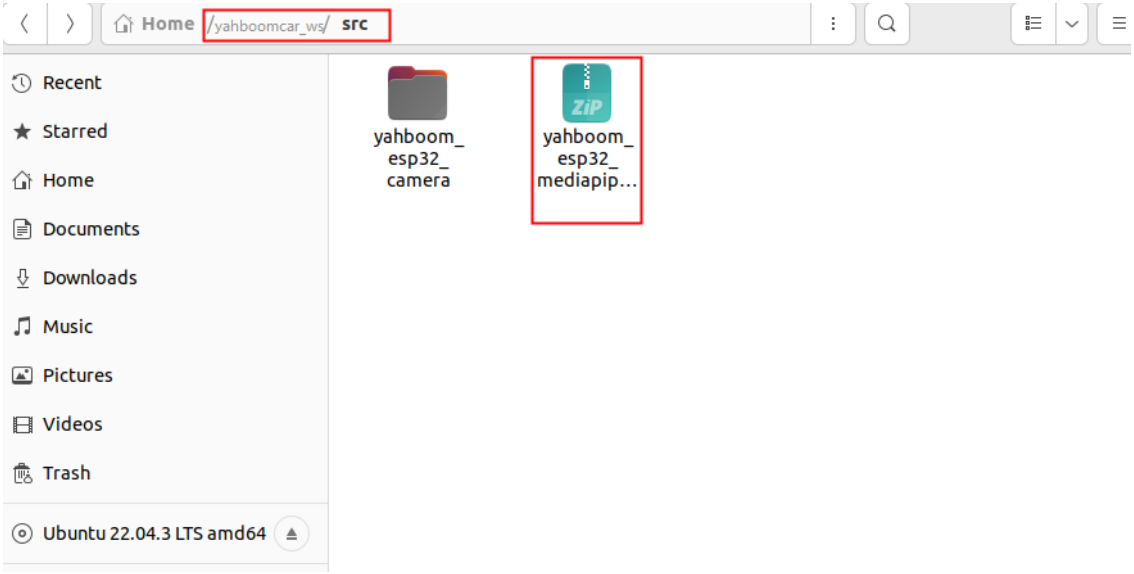
Kind reminder: If you don't understand how to operate, copying Google incorrectly will solve the problem.

2. The installation of midiapipe is completed by running the above commands.

2. Building the Mediapipe Function Package

1. Note: If the tutorial for viewing the camera in * * 2. ROS2 * * has already created the path "yahboomcar_ws/src", then the information will be

savedyahboom_esp32_mediapipe.zipPass to this path and run the following command




```
uzip yahboom_esp32_mediapipe.zip
cd ../yahboomcar_ws #Enter this folder
colcon build
```

Once the compilation is successful, the mediatipe feature package is successfully loaded into the ROS2 environment, as shown in the figure

```
Summary: 3 packages finished [2.70s]
  2 packages had stderr output: yahboom_esp32_camera yahboom_esp32_mediapipe
```

2. **If you are directly reading this tutorial and haven't seen the previous tutorial, please run the following command first**

```
mkdir -p ~/yahboomcar_ws/src
echo "source ~/yahboomcar_ws/install/setup.bash " >> ~/.bashrc
source ~/.bashrc
```

Then go back to the first step of operation

```
Summary: 3 packages finished [2.70s]
  2 packages had stderr output: yahboom_esp32_camera yahboom_esp32_mediapipe
```

The yahboom_esp32_camera in the picture is built in the **2. ROS2 View Camera** tutorial, and this feature pack and the mediape feature pack do not affect each other.