YOLO Environment Setup

Note: If using the docker container from the factory image, you don't need to rebuild the environment. The environment is already set up, you just need to enter the docker according to the tutorial above to use it.

1. System Kernel and Architecture

```
uname -a
```

```
root@raspberrypi:~# uname -a
Linux raspberrypi 6.12.25+rpt-rpi-2712 #1 SMP PREEMPT Debian 1:6.12.25-1+rpt1 (2025-04-30) aarch64 aarch64 aarch64
GNU/Linux
root@raspberrypi:~#
```

2. Preliminary Preparation

```
sudo apt update
sudo apt install python3-pip -y
sudo pip install -U pip
```

3. Install Ultralytics

```
pip3 install ultralytics
```

For more detailed tutorials, refer to this official link: Install Ultralytics - Ultralytics YOLO Documentation