Learning Route

1. **Be sure to burn the image we provide**. If you burn the official image of Jetson Nano B01, you need to build the relevant AI environment yourself. Many inexplicable errors will occur and you need to find ways to solve them yourself. For the method of burning the image, please refer to **Chapter 2 Jetson Nano B01 SUB Board Basic Tutorial**
2. We provide two images:

   (1) If you purchased the **AI Big Model Package**, the default image in the TF card you received is the AI Big Model image, which is only suitable for running the **AI Big Model Development** chapter. If you need to **run cases in other chapters**, please burn the image in the "**Factory Image_ROS+AI Vision**" folder.

   (2) If you purchased a package** that includes a TF card other than the **AI Big Model Package**, the default image **Factory Image_ROS+AI Vision** in the TF card you received can directly run the tutorials **except AI Big Model Development**. If you want to burn the factory image for ROS+AI Vision yourself, the image version you choose depends on whether you're using a USB drive or TF card. For the TF card version, use the image in the Images (Carrier Board Slot) folder; for the USB drive version, use the image in the Images folder.
3. Once your image is burned and the system boots successfully, If you want to perform some basic configuration on the Jetson Nano B01, such as:

- USB drive/SD card expansion
- SSH/VNC login
- Transferring files between Windows and the Jetson Nano B01
- Increasing the space on the Jetson Nano B01
- System backups, etc.

  You can view **Chapter 4: Basic System Setup Tutorial**

4. If you want to learn how to use the Jetson Nano B01's GPIO ports and have a basic understanding of Python, you can view **Chapter 5: GPIO Hardware Control Tutorial**
5. If you want to learn about AI vision, you can view **Chapter 6: Advanced AI Vision Tutorial**

名称	修改日期	类型
1.板载摄像头教程	2024/1/10 17:42	文件夹
2.USB外接摄像头测试	2024/1/10 17:36	文件夹
3.Jupter lab和Jetcham安装	2024/1/10 17:37	文件夹
4.安装TensorFlow(选看)	2024/1/10 17:41	文件夹
5.jetson-inference环境搭建（选看）	2024/1/10 17:41	文件夹
6.Hello AI World	2024/1/10 17:41	文件夹
7.图像分类推理	2024/1/10 17:41	文件夹
8.目标检测推理	2024/1/10 17:42	文件夹
9.语义分割	2024/1/10 17:41	文件夹
10.姿态估计	2024/1/10 17:41	文件夹
11.动作识别	2024/1/10 17:41	文件夹
12.背景去除	2024/1/10 17:41	文件夹
13.单眼深度估计	2024/1/10 17:35	文件夹
14.DeepStream环境搭建(选看)	2024/1/10 17:36	文件夹
15.汽车检测	2024/1/10 17:36	文件夹
16.yolo5简介	2024/1/10 17:36	文件夹
17.yolo5的环境搭建（选看）	2024/1/10 17:36	文件夹
18.yolo5的实时检测	2024/1/10 17:36	文件夹
19.yolo5+tensorrt加速	2024/1/10 17:36	文件夹
20.yolo5+tensorrt加速+DeepStream(...	2024/1/10 17:37	文件夹
21.Mediapipe环境搭建（选看）	2024/1/10 17:37	文件夹
22.Mediapipe开发	2024/1/10 17:37	文件夹
23.使用必看	2025/6/23 17:59	文件夹
24.YOLOv11环境搭建	2025/3/25 9:25	文件夹
25.CLI使用	2025/6/23 18:00	文件夹
26.物体检测	2025/6/23 18:00	文件夹
27.实例分割	2025/6/23 18:01	文件夹
28.姿态估计	2025/6/23 18:01	文件夹
29.图像分类	2025/6/23 18:02	文件夹
30.定向边框对象检测	2025/6/23 18:02	文件夹
31.模型转换	2025/6/23 18:04	文件夹

Each colored box represents a component. Each component depends on the previous one and rarely operates independently. If the previous environment is not set up correctly, an error will occur. However, using our pre-built image allows you to directly run the AI examples.

6. If you're interested in learning ROS system courses, you can watch the **ROS1 Advanced Tutorial** or the ROS2 Advanced Tutorial**. Once you've mastered ROS knowledge, you can purchase our ROS accessories for advanced learning. Our pre-built images also include the source code for the corresponding ROS accessories.
7. If you're interested in learning AI large models, you can watch the AI large model development section. The AI large model development tutorial for Jetson Nano requires you to burn our configured large model image: **Motherboard/Appendix/Images/Factory Image_Online+Offline Large Model/AI_pure_Nano_4G_20250915.zip**