

## **Jetson**

A Jetson is a Linux-based edge device equipped with a hardware acceleration module, similar to a GPU. Keep in mind that it can be used as a desktop computer, so most of the time, the best way to know what is going on is just by plugging in a screen and some peripherals!

## **Programming Language**

ROS can work with either C++ or Python, if you are an inexperienced programmer, we highly recommend using python.

## **ROS**

An extensive documentation of the middleware can be found under their tutorial page, <http://wiki.ros.org/ROS/Tutorials> Keep in mind that you will need to follow the tutorials related to ROS melodic. If you face any issues, do not hesitate to contact the support team.

## **AI and Computer vision**

- Open CV: Useful for image manipulation and off-the-shelf state-of-the-art computer vision algorithms, preinstalled in the Ubuntu image. Visit: <https://opencv.org/> for more detailed documentation.
- Google Colab: Python-based online computing cluster, very useful if you are interested in training your own machine learning algorithms.
- Tensorflow/PyTorch: Libraries used to train and deploy your AI models.
- Jetson Inference: Deep-learning-centred GitHub repo developed by Nvidia. <https://github.com/dusty-nv/jetson-inference>

## **Contact and Support**

All the communication will be handled through our discord server <https://discord.gg/aQDNvtqq6X>

## **Submission Platform and Judge board**

The submission platform and judging procedure are going to be announced during the event through discord.