

# Required tools / environment

- Python 3 (3.7+)
- Ubuntu 20.04 (recommended)
- Development tools:
  - Jupyter Notebook (sort of IDE)
  - Numpy (library for dealing with data arrays)
  - Matplotlib (library for plotting data)
  - SciPy (library for math operations)
  - PyTorch, TensorFlow (libraries tailored for AI)

# Setting up the virtual environment

**Objective:** To have all the correct versions for the software

1. Open your virtual machine with Ubuntu 20.04
2. Install virtualenv package: *sudo apt install virtualenv*
3. Go to your working directory
4. *virtualenv -p python3 .venv* (you only need to do it once)
5. *source .venv/bin/activate* (you need to do it every time)
6. *pip install -r requirements.txt* (you only need to do it once)
7. *jupyter notebook* (it opens a notebook in your web browser)