## **numbers\_detection** ~/Documents/PyCharmProjects/numbers\_detection 🕆 🖿 neural network 🤈 nn implementations idea : idea 1 hidden > 784 128 10 ✓ ■ 2 hidden 784 512 128 10 > **■** .idea > 128 10 CUBE uC project (CubeMX) > ■ model ← Result of training script -> w/b in .txt format ✓ ■ nn\_C\_implementation nn C test implememtation **b**1.h 6 b2.h ₫ b3.h nain.c Makefile 🏂 sample.h **₡** w1.h **₡** w2.h 🕵 w3.h ■ wb prepare.sh biases/weights from .txt to .h feedforward.py nn Python implementaion trainig.py nn training script (Tensorflow) 🕻 uart\_test.py 🛶 simple uC <-> PC UART test 🖿 video 🖊 ——— Communication project > **■** .idea 🗡 🖿 1 hidden → 128\_10 > model 🖆 7.jpg 7.txt 🖆 7 2.txt aaa.txt feedforward.py ← copy paste from neural\_network, to compare with uC in real time keras\_sample\_save.py MNIST images exporter 🛵 main.py dotsu.py\_\_\_\_ Python otsu implementation otsu\_test.py sample.txt > 🖿 2 hidden > lotsu C implementation C otsu implementation 🕷 .gitignore **目 LICENSE** 🚜 README.md