AI-ANNE

A NEURAL NET FOR EXPLORATION

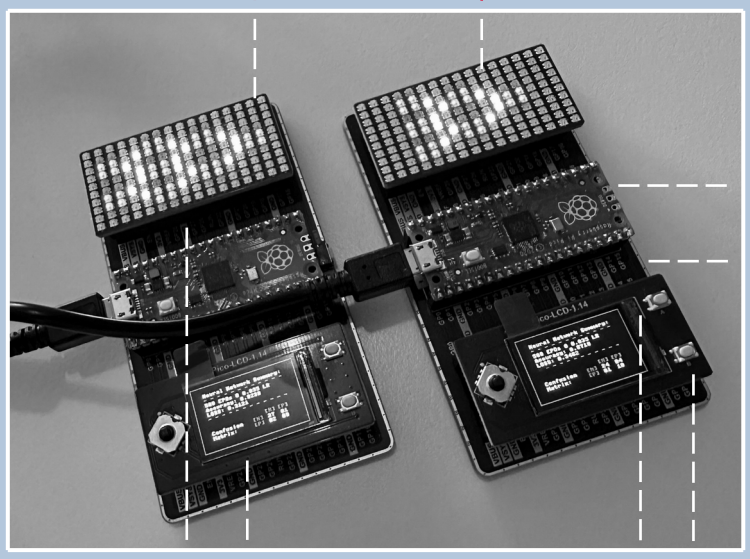
Software:

OPEN SOURCE

ARTIFICIAL NEURAL NETS

8 Neurons @ 4 Layer

6 Neurons @ 3 Layer



Raspberry Pi Pico

Dual GPIO Expander

Raspberry Pi Pico **plus Hardware:**

Dual GPIO Expander	**(SKU 19343)**
1.14 Pico LCD Display	**(SKU 19340)**
16 x 10 LED Matrix	**(SKU 20170)**

LED Matrix

LCD Display

A

B

MICRO PYTHON

EFFICIENT & EXPLAINABLE

Basic Mode of Operation:

Flexible **Pre-Training** with TensorFlow & Keras
Simply create Neural Nets in **MicroPython**
Transfer the **Parameters** to a Microcontroller
Selection of suitable **Activation Functions**:
Softmax, ReLU, Leaky ReLU, Tanh, Sigmoid

Transparency and Control:

Insights into the functioning of **Neural Nets**
Efficient Algorithms & energy-saving Hardware
Realtime Processing & **Protection of Sensitive Data**
Manual **Fine Tuning** directly on the Microcontroller
Simple Hardware and Software Setup with **Thonny**

Version 2.0

FROM AGE **16+**

KINRW

Lernende Systeme
DIE PLATTFORM FÜR KÜNSTLICHE INTELLIGENZ

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