AI-ANNE

(A) (N)EURAL (N)ET
FOR (E)XPLORATION

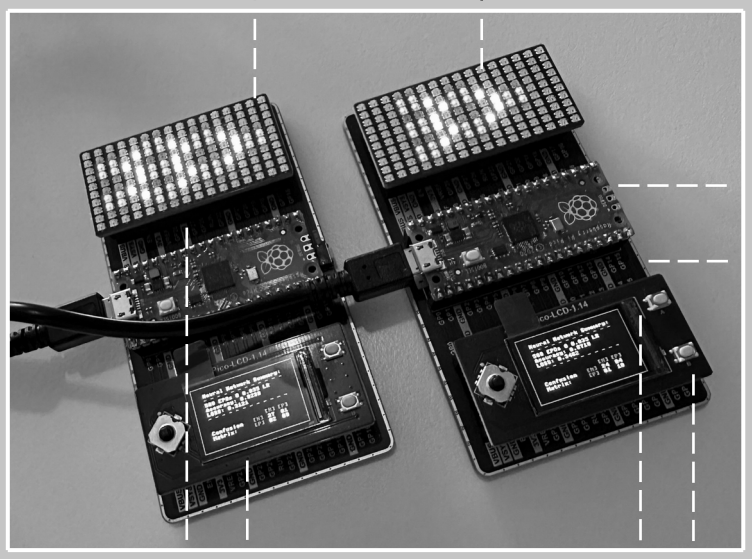
Software:

OPEN SOURCE

ARTIFICIAL NEURAL NETS

8 Neurons @ 4 Layer

6 Neurons @ 3 Layer



Raspberry Pi Pico

Dual GPIO Expander

LED Matrix

LCD Display

A

B

Raspberry Pi Pico **plus Hardware:**

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

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+**

www.**statistical-thinking**.de
Prof. Dr. habil. Dennis Klinkhammer

KINRW Lernende Systeme DIE PLATTFORM FÜR KÜNSTLICHE INTELLIGENZ