

Software:



OPEN
SOURCE

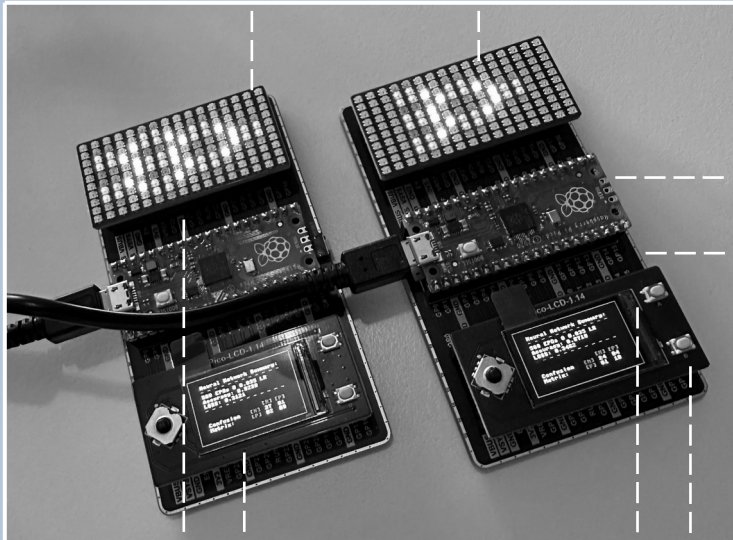
AI-ANNE

A NEURAL NET FOR EXPLORATION

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