

Instead of
artificial intelligence,
let's talk about math and statistics!

**OPEN
SOURCE**

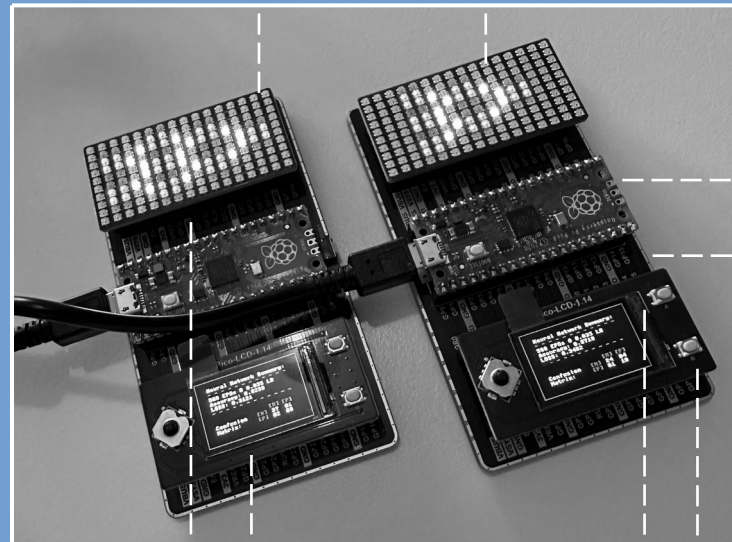
**LERNE
PYTHON**

KI-ENNA

(E)IN (N)EURONALES (N)ETZ
ZUM (A)USPROBIEREN

8 Neurons @ 4 Layer

6 Neurons @ 3 Layer



Raspberry Pi Pico

GPIO Expander Board

LED-Matrix

LCD-Display

A

B

**TRAINIERE
DEINE KI**

AB 16+ JAHREN

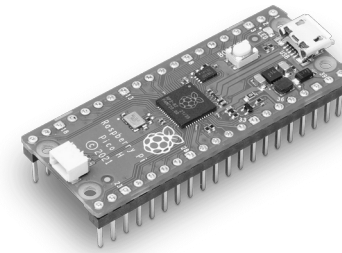


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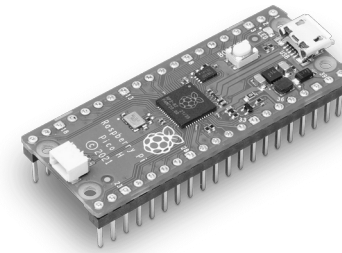
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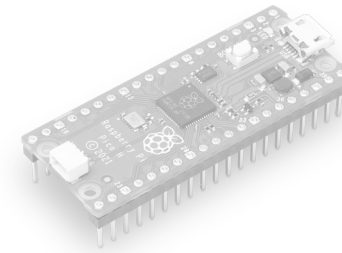
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Raspberry Pi Pico

* 133 MHZ * 264 KB RAM * 2 MB FLASH

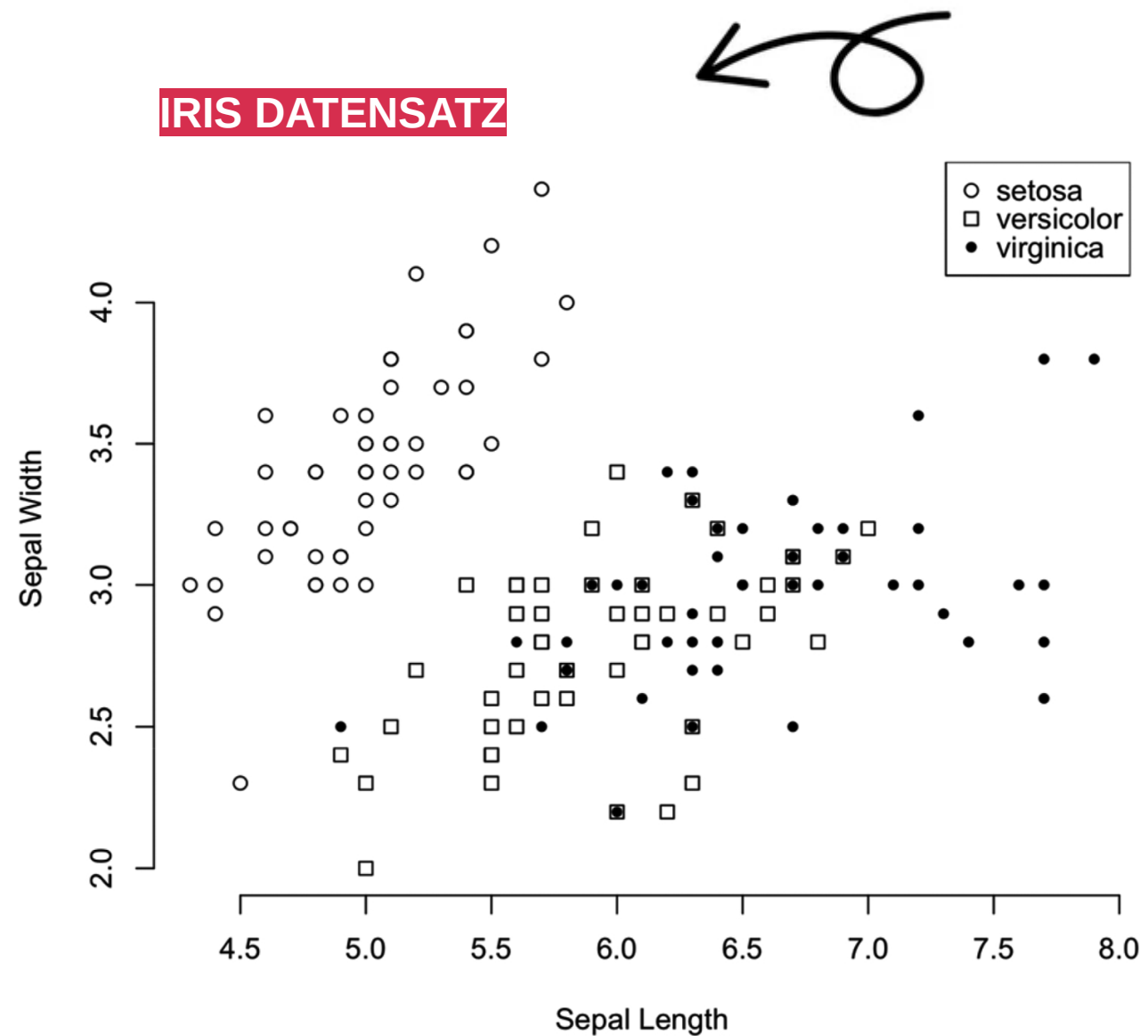
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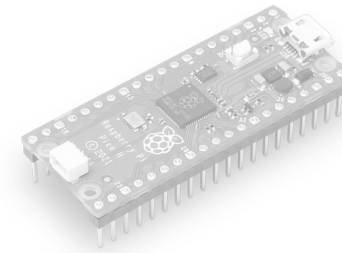
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IRIS DATENSATZ



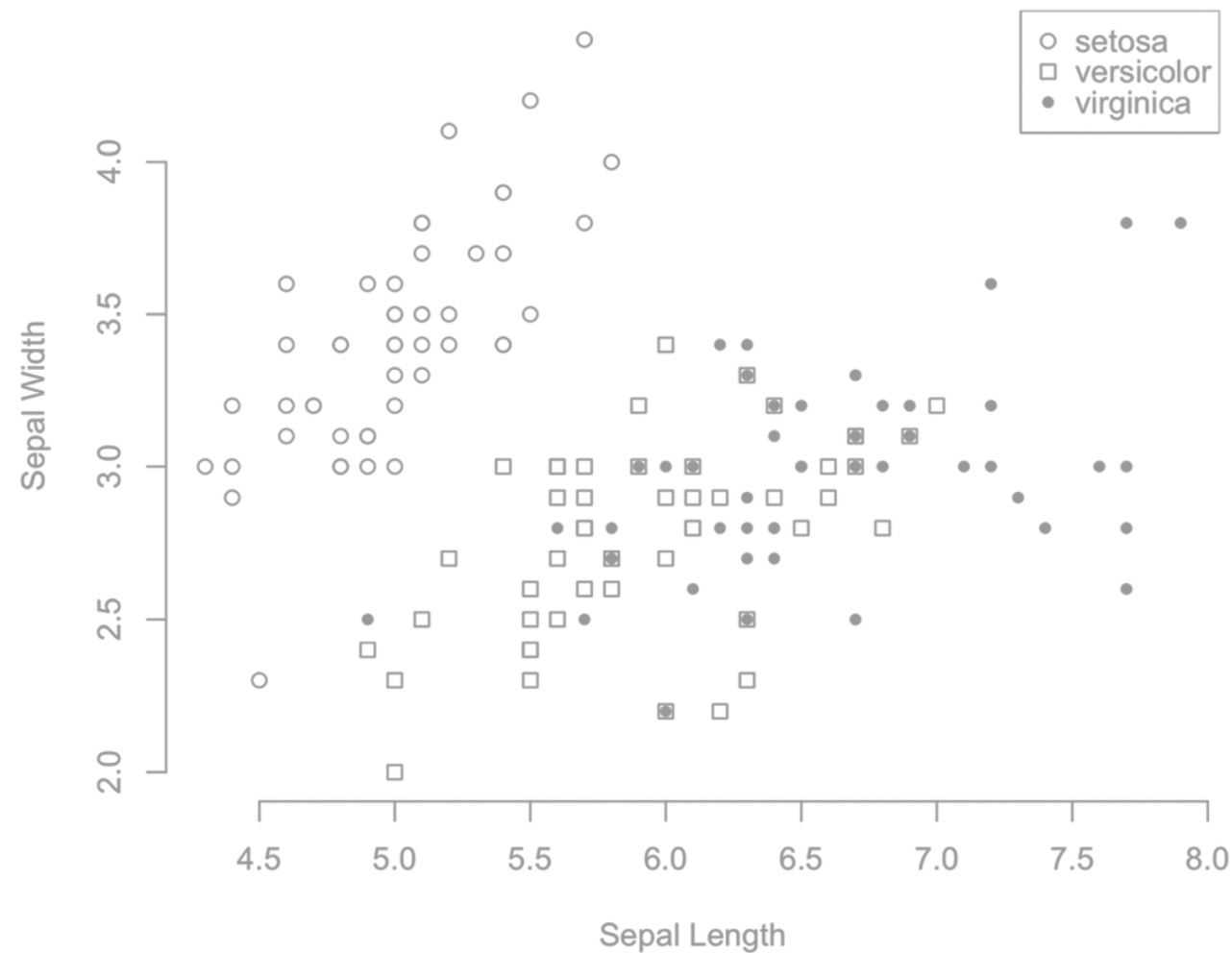
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NEURONALE NETZE

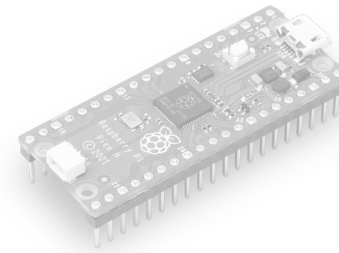
A) **3 Layer** mit insg. **6 Neuronen**

B) **4 Layer** mit insg. **8 Neuronen**

Visualisierung mittels RGB Matrix:



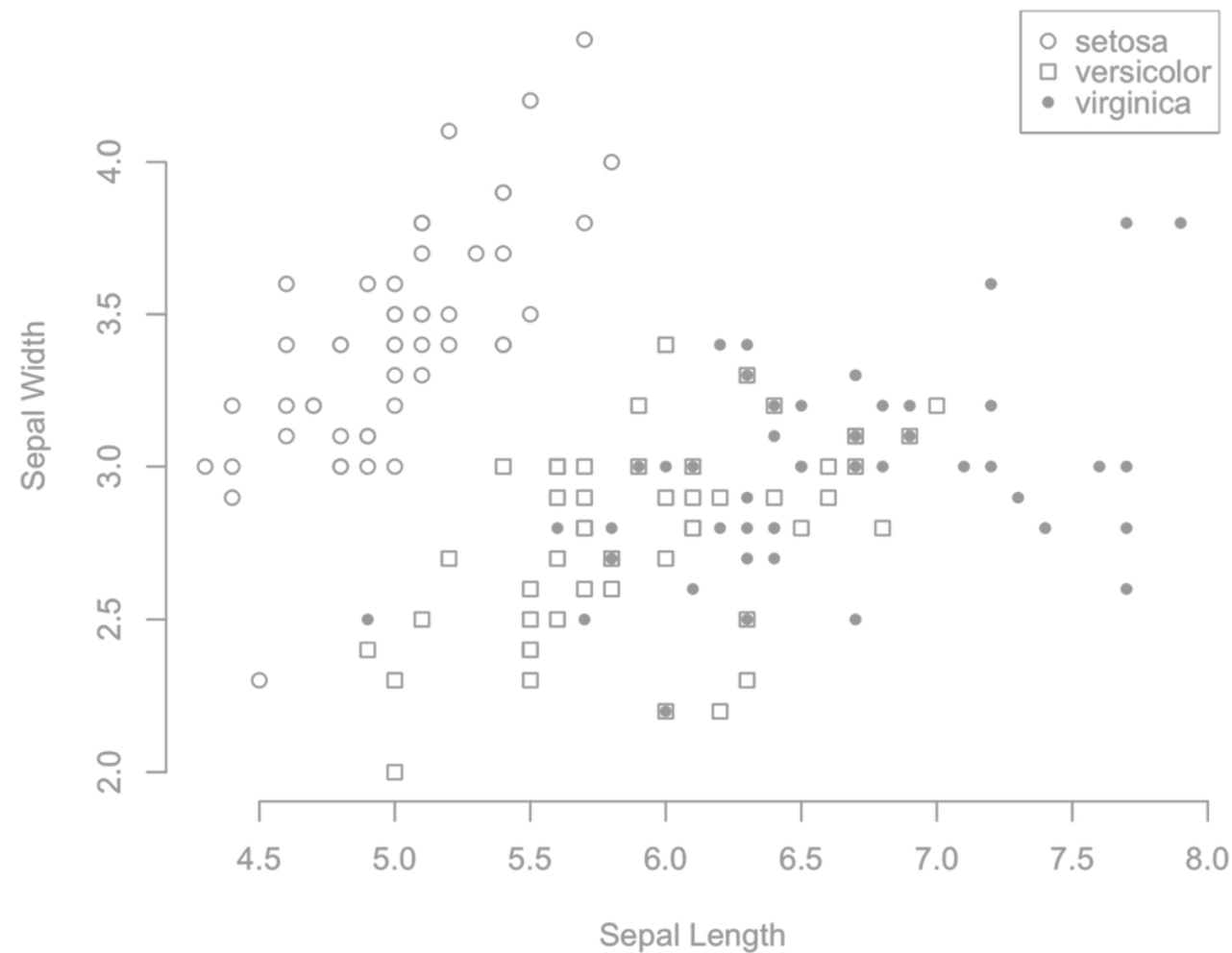
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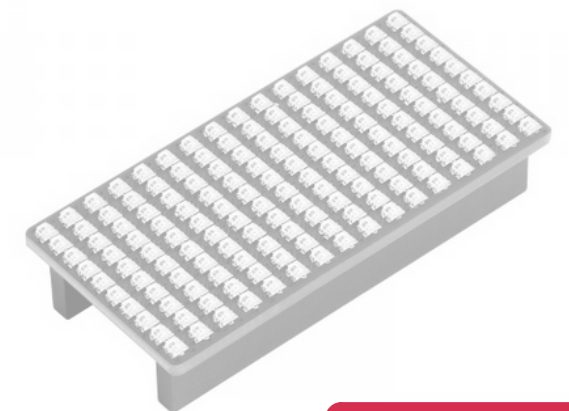


NEURONALE NETZE

A) 3 Layer mit insg. 6 Neuronen

B) 4 Layer mit insg. 8 Neuronen

Visualisierung mittels RGB Matrix:



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EINFACHE BEDIENUNG



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[A] 6 NEURONS / TRAIN

EINFACHE BEDIENUNG



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EINFACHE BEDIENUNG



[A] 6 NEURONS / TRAIN



[B] 8 NEURONS / ABOUT

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[PUSH] REBOOT

EINFACHE BEDIENUNG



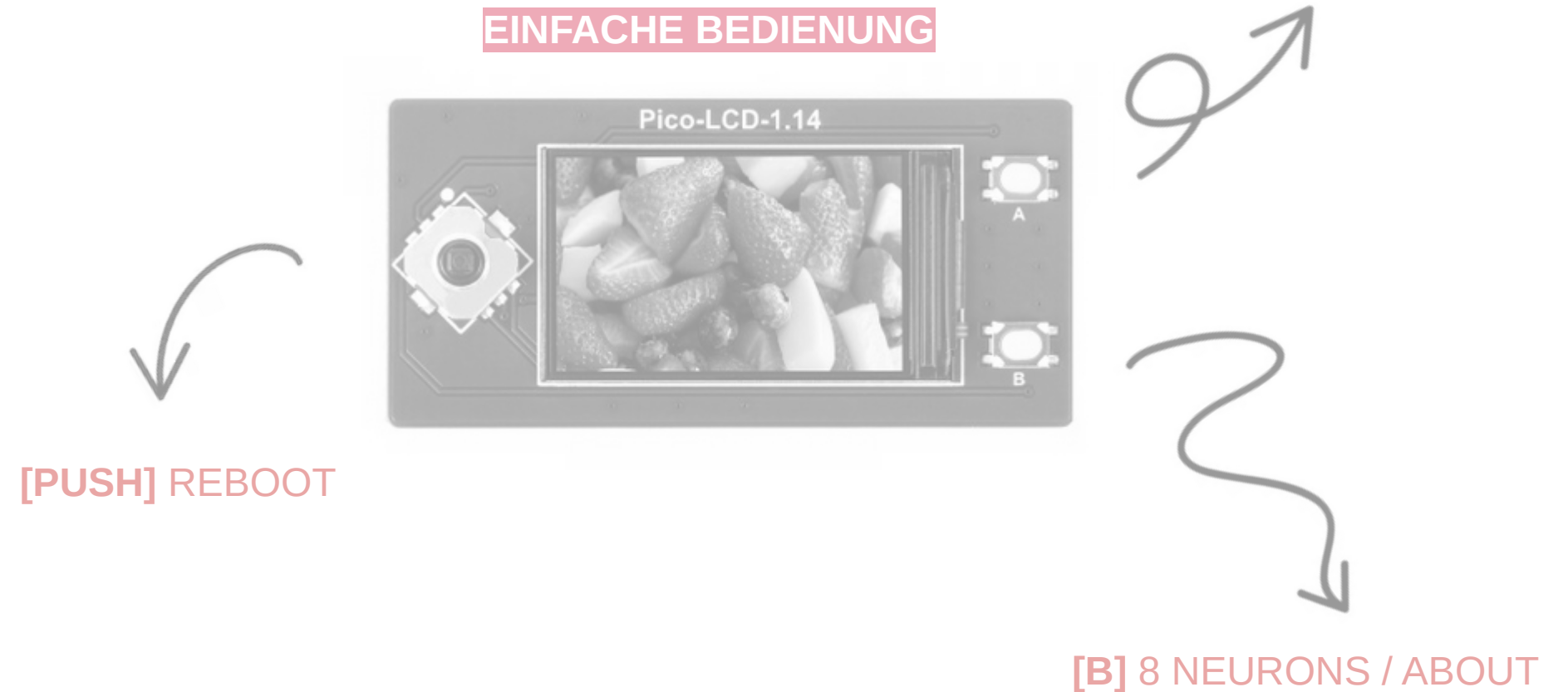
[A] 6 NEURONS / TRAIN

[B] 8 NEURONS / ABOUT

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Trainiert **KI-ENNA** mit einem Modell Eurer Wahl!

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[A] 6 NEURONS / TRAIN

EINFACHE BEDIENUNG



[PUSH] REBOOT

[B] 8 NEURONS / ABOUT

TRAINING / VALIDIERUNG

Predictions with 6 neurons:

```
[[0, 7.962081, 0, 9.969112, 6.265024, 8.694111, 0, 3.594811, 8.518195, 7.244182, 6.196642, 5.96587, 7.992151, 0, 0, 0, 0.4316521, 0, 3.07996, 0]]  
[0, 1, 0, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0, 1, 0]
```

Accuracy: 0.95

Confusion Matrix:

```
[9, 1]  
[0, 10]
```

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[A] 6 NEURONS / TRAIN

EINFACHE BEDIENUNG



[PUSH] REBOOT

[B] 8 NEURONS / ABOUT

TRAINING / VALIDIERUNG

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