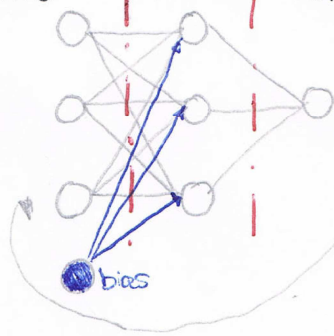


def runNN(self, input):

CHECKING INPUT

INPUT HIDDEN OUTPUT



NODES/NAUT/NUMBER

$4 - 1 = [0, 0, 1].length$ if TRUE go

INPUT FROM THE PATTERN TO BE TRAINED

ACTIVATING INPUT

ACTIVATIONS/INPUT: $[1.0, 1.0, 1.0]$

INPUT: $[0, 0, 1]$

→ ACTIVATIONS/INPUT: $[0, 0, 1]$

INPUT → HIDDEN

WEIGHTS INPUT

REPEATED INPUT

$[-0.2; 0.11; 0.02]; [0, 0, 1] \rightarrow 0 + 0 + 0.02 \rightarrow \text{sigmoid}(0.02) \rightarrow 0.197$
 $[-0.11; -0.15; 0.13]; [0, 0, 1] \rightarrow 0 + 0 + 0.13 \rightarrow \text{sigmoid}(0.13) \rightarrow 0.192$
 $[0.09; 0.07; -0.07]; [0, 0, 1] \rightarrow 0 + 0 - 0.07 \rightarrow \text{sigmoid}(-0.07) \rightarrow -0.069$

ACTIVATIONS/HIDDEN

$[0.197; 0.192; -0.069]$

HIDDEN → OUTPUT

WEIGHTS OUTPUT

$[-0.2; 0.17; -0.05] \cdot [0.197; 0.192; -0.069]$

$\rightarrow [(-0.2 \cdot 0.197) + (0.17 \cdot 0.192) + (-0.05 \cdot -0.069)] =$

$= (-0.0394 + 0.03264 + 0.00345) = -0.00331$

$\rightarrow \text{sigmoid}(-0.00331) = -0.0003$ return ACTIVATIONS/OUTPUT[k] = -0.0003