Hidden layer node
$$z_{1}^{(1)} = W_{1} \times t_{2}^{(1)} \times t_{3}^{(1)} \times t_$$

A = [a zi] a) | zi] (2) | zi] (m)] | # hidden

training sample

$$W' \begin{bmatrix} x^1 & x^2 & x^3 & \dots & x^n \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\$$

 $W' = \begin{bmatrix} \longrightarrow \\ \longrightarrow \end{bmatrix} \qquad W'X' = \begin{bmatrix} \vdots \\ \vdots \end{bmatrix} \qquad W'X^2 = \begin{bmatrix} \vdots \\ \vdots \end{bmatrix} \qquad W'X^3 = \begin{bmatrix} \vdots \\ \vdots \end{bmatrix}$

Why use activation function? atry just liven outpit

$$S'(t) = 1 - (tanh t)^{2}$$

$$Rela \qquad S(t) = Max(0, t)$$

Leoky ReLA

312) = tenh(2)

$$S'(t) = \begin{cases} 0 & \text{if } t \geq 0 \\ 1 & \text{if } t \geq 1 \end{cases}$$

317) = MCX (0.017, 7)

S'(t)= {0-0/, If 2 <0

Gradiert Descart for Navel Net

perchante:
$$W^{21}$$
, b^{21} , w^{23} , b^{23} , b