Can Signific de Muticlas Christiation? DOHE Prediction B. A X2 χ_1 Target variable > A Prob(A) /ve rust

3 Mural (XI) > A Prob(A) /ve rest

(XI) P B Prob(B) Vs Sust

(XI) C —

out put houron \rightarrow A reflect $P(A) \rightarrow 0.7$ \rightarrow B reflect $P(A) \rightarrow 0.5$ C ve feet P(c) - 0.6 Inputs output layer 3 nuron Input neuron - Taking our input. Z = (WX +b) * Activation - Signal d Softman general way to unitroduce unulticlars classificed people.

Total publishing = 1

Signaid =
$$\frac{1}{12}$$

Signaid = $\frac{1}{12}$

He

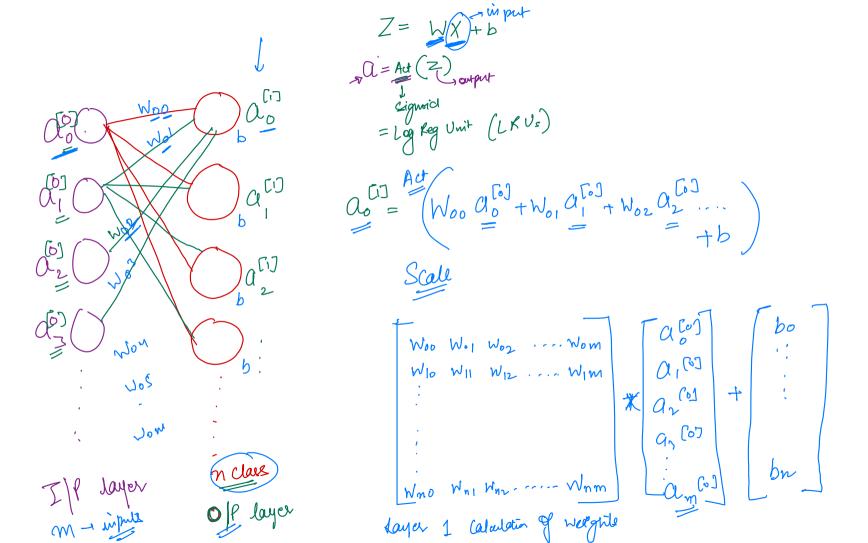
Signaid = $\frac{1}{12}$

He

Signaid = $\frac{1}{12}$

Signaid = $\frac{$

 $\frac{12}{2^{1}} = \frac{12}{12+8+4} = \frac{12}{24} = \frac{12}{24}$



Tight & -> Letivation [N x a [e-1] wherein feature X2 nx beordcasting (xxd) (2,3,4) 0.0057

Signoid is a special last of settman.

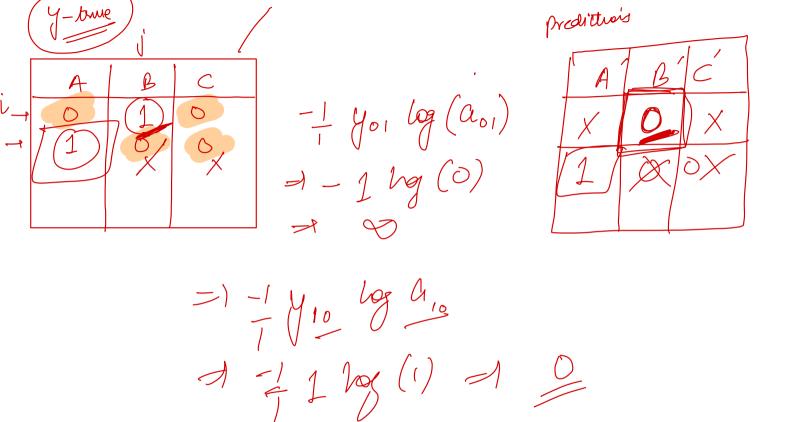
$$\frac{2}{2} = \frac{2}{2} = \frac{2}$$

$$| \frac{dabrpuin}{doc}| = 0$$

$$| \frac{1}{1} =$$

 $= -\frac{1}{1} \left(0 \log \left(\frac{1}{1} \right) + \left(1 - 0 \right) \log \left(1 - 1 \right) \right)$ 7) - (0 + lg(0)) Max loss Categorical Cross entropy loss (CCE) no of classes $J(w,b) = -1 \times 2 \times 4 \times \log(Q_{ij})$

OHE variable



- X ONE Time value / tryet (Spane CCE

CCE (y, act(XW+b))

actual practición

forward propagatrán Cost function (minimuse) Loveing gradient ducent Sale propagation