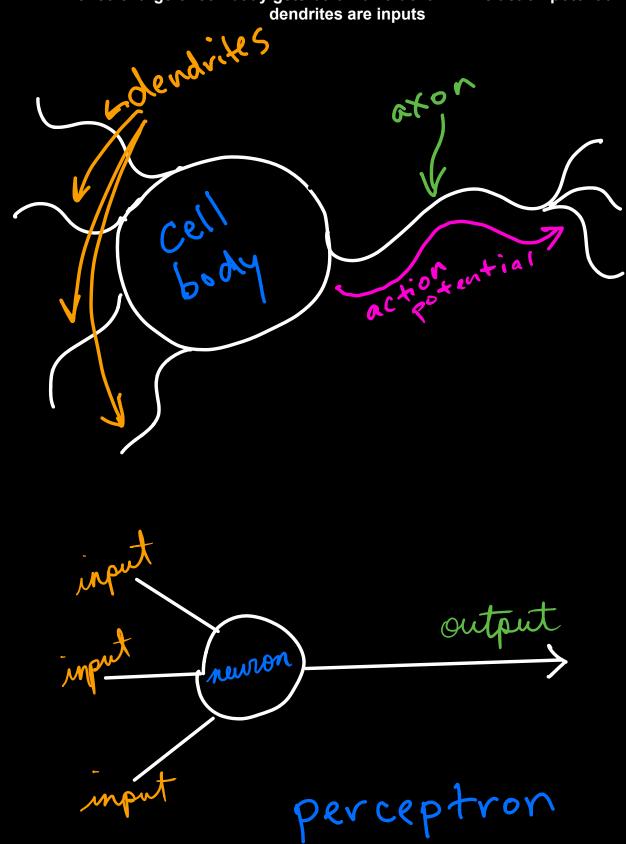
Uintapt

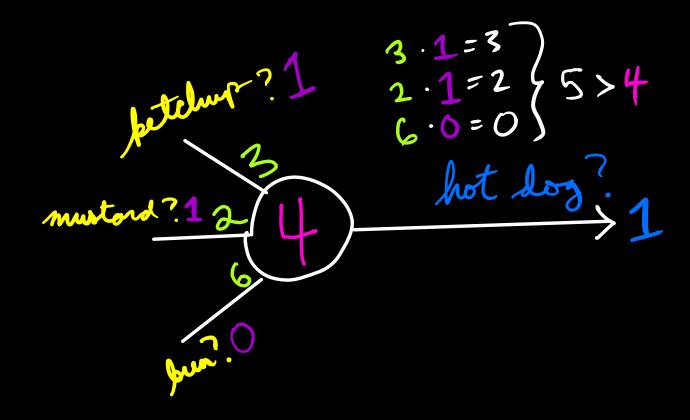
JON KROHN'S
"Fundamentals of
Deep Learning"
Reference PDF

(jon Krohn.com)

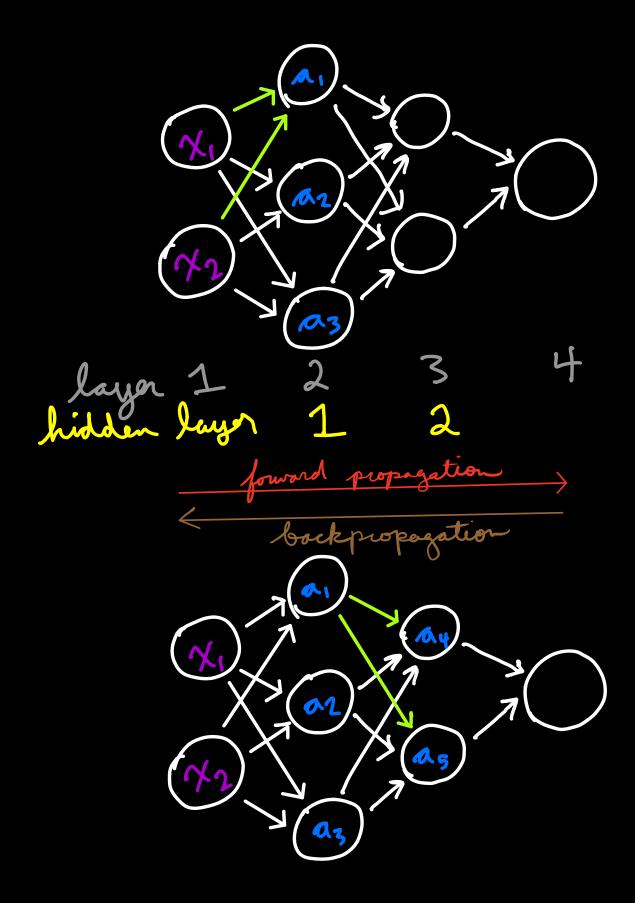
trad. ML Ceature lengineering deep learning modelling

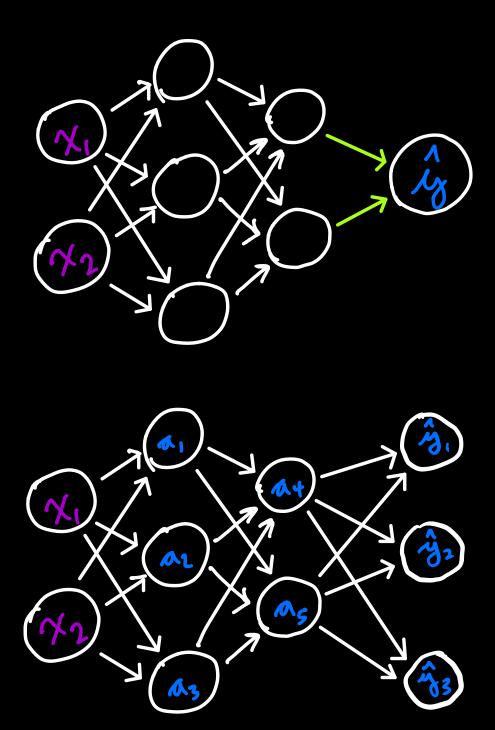
K(2012) -L(1998) -F(1980) -HkW (1959) -S43 m once charge of cell body gets below a value it will fire action potential dendrites are inputs



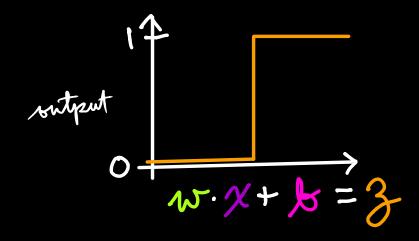


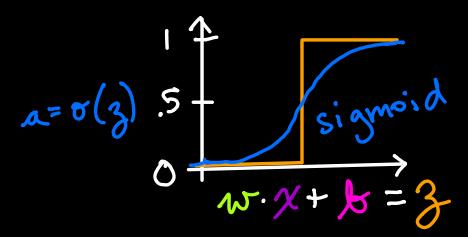
3.0=0
2.0=0
6.1=6 betchur? 0 hot dog? if $\sum_{i=1}^{\infty} wixi > throshold, output 1$ otherwise, output 0 b=-threshold output $\begin{cases} 1 & \text{if } w \cdot x + b > 0 \\ 0 & \text{otherwise} \end{cases}$ w.x+p



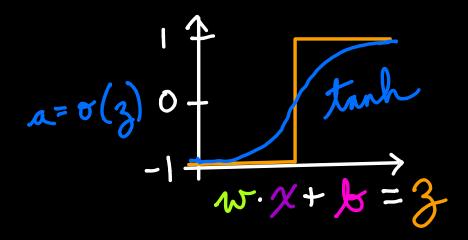


Activation Function

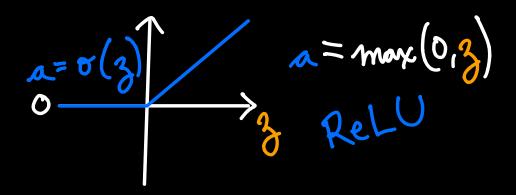




sigmoid you would only use in output layer ie if want to bind between 0 and 1



learns much faster than sigmoid because of mean of 0



able to learn more quickly on a straight line vs a curve leaky relu offer small advantage

