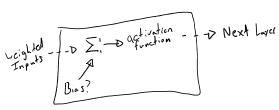
Components

3:51 PM

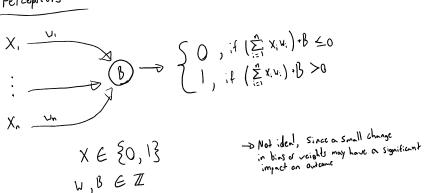
January 2, 2022

Neurons

January 2, 2022 4:22 PM

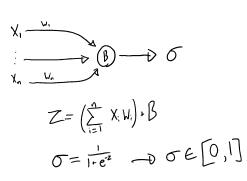


Perceptions



Signoid Neurons

-DEnsuros small change in weight/bins results in small change in outcome



Bosically, perceptrons act like a step function, while signaid neurons "smooth out" the function, allowing for subtle adjustments to the network.

Change in a neuron's cutput w.r.t. a

Change in the neuron's veights/bias:

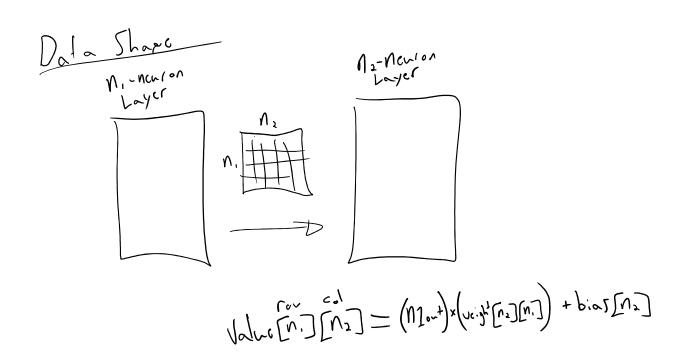
Doutput = \(\sum_{j} \frac{\text{Jostput}}{\text{Juj}} \D \varpsi_{j} + \frac{\text{Jostput}}{\text{JB}} \D \varpsi_{j} \)

Thinking page

January 2, 2022

6:00 PM

Layer
- Bias[] - Weight[][]
- Constructors - Accessors - Mutators



Donstruct data matrix & Mlayers

Donstruct data matrix & Mlayer in the pair

Done of the 2nd layer in the pair

Lorentees 1 array from 1st (outst)

Done ires 1 array and a 20 minutes and (biogras, veights)

Should the data have its own object? Thould the data have its own object? Thould it be transferred directly to each layor?

/our object

Our Object

-OCan use polymorphism to support

multiple foins of data?

-DConly nable build active function

-DConly nable build active function

-DConly into data object

-DTidies code?

-DTidies code?

-Doi create several data object

-Doi create several data object

-Doi create several data object

-Dallows enzy organization of data sample)

-Dallows enzy organization of data sample

-Dan keep input, output expected output, etc.

together for enzy lanckpropagation, etc.