MEURAL NETE (Karpathy)

A class of mathematical expressions BACKPROP NN uses Rackprop & more general concept. doesn't care about NN DERIVATIVE gafn. s how soes the for respond, when we slightly bump up the 26? with what Sensitivity? door no ; door game ; equite come ; raice IIa a CHAIN RULE " if z depends on y dz dydz dz & y depends on x then 2 depends on x or well 'product of rates of changes' SY NAPTIC STRENGTH NO WOX WINI ZW: NI+6 f) →

CELL BODY

poperation The func. Invide neural nets can be very trivial like +, - or complex like tanh DAS long as we can know DERIVATIVE of a func, we can BACK PROP through it gradiente A = d(8) = grad(1) multiply derivative with gradient till then this is the chain Rule we grad (c) is de where L is final too func * when a single node gets back gradient from 2 or more nodes, we ACCUMULATE the gradient. Add them.

+ dB dL

D Innate Finger happiness Synaphics trengths ien regardered input, that g each input make it a bit more or bitless LOSS pobble. A Single number to evaluate performance of

the whole neural network.