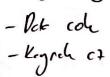
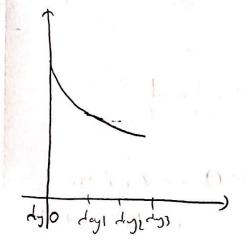


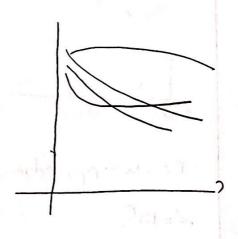
operperenters turing in practice: Pendes us. Carier

Bubysitting one moler



Training many models in puralled





Morrelizing activations in a network (Sergey Inflerand Christian Szegedy)
Betch Normelization

$$M = \frac{1}{m} \sum_{i=1}^{n} 2^{(i)}$$

$$2^{(i)}_{parm} = \frac{2^{(i)} - M}{\sqrt{\sigma^2 \cdot G}}$$

$$f = \sqrt{\sigma^2 + \epsilon}$$
 $f = \mu$

Then $\chi^{(1)} = \chi^{(1)}$

for f=1 - non Mini bethes

Compute furiard prox on kie?

each hidle layer use 13th to replace 2 the 1th 2 the)

be back prop to compute duter 1 the, 1 pter,

Undete perenews (te) = wer-1 duter

B(e) = 1 the

1 th

works monorun, RMSprop/Adem

Softmux regression generalizes logistic regression to C cluses

$$y^{(1)} = \begin{bmatrix} 0 \\ \frac{1}{3} \end{bmatrix}$$

$$C_{1}(x,y) = C_{1}(x,y) = \begin{bmatrix} 0.3 \\ 0.1 \\ 0.1 \\ 0.1 \end{bmatrix}$$