Assignment 2. 2) 3) new dependency Stack buffer trasher hon [I, parsed, this, sentence, correctly] Initial Config. [Poot] [Parced, this, sentence, correctly] [Root, I] SHIFT [Root, I, Parxed] [this sentence, correctly] SHIFT [this, sentence, correctly] Parced→I Left - Arc [Root, Parsed] [sentence, Correctly] [Root, Parsed, His] SHIFT Robt, Pared, this, Sentence] [Correctly] SHIFT Root, Parsed, Sentence] [correctly] Sentence-> This left-Arc Choot, Parsed [Correctly] Parsed -> Sentence Right - Are [Root, Parsed, Correctly] F [] Shift [Root, Parced] # [] Parsed - Correctly Right - Are [Root] Poot→ Parsed Right - Are g(i) legging the momentum accumulated throughout the descent of the gradient can help us continue update our parameters in case - the "real" gradient becomes null 1- Then we got stuck at a local minimum for instance

CS 224n: Deep learning for NLP

gradient (of previously low volues 5 increasing the final 12: on very low values of gradient now have slighly higger -> this may help combat vanishing gradient

$$P(x^{(t+)} = y^{(t)} | x^{(t)} - x^{(t)}) = g(t)$$

$$2^{(t)} = x^{(t)} | L$$

$$y^{(t)} = signand(y^{(t+)} + y^{(t)} + y^{(t)} + y^{(t)}) = signand(e^{(t)})$$

$$g(t) = signand(y^{(t)} + y^{(t)} + y^{(t)}) = signand(e^{(t)})$$

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$$y^{(t)} = h_0 \in \mathbb{R}^{N_1} \quad Le \mathbb{R}^{N_1 \times d} \quad He \mathbb{R}^{N_2 \times d}, \quad Ie \mathbb{R}^{N_2 \times d}$$

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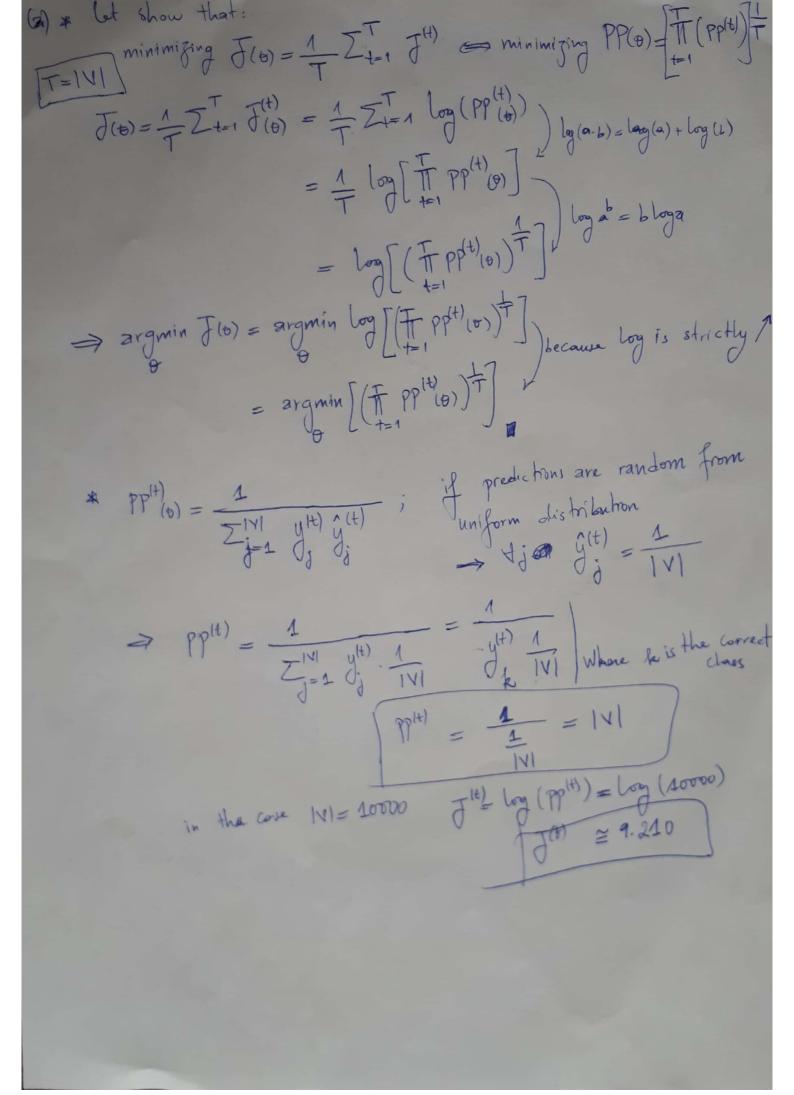
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Scanned by CamScanner

$$\frac{\partial f^{(k)}}{\partial H} \Big|_{(k+2)} = \frac{\partial f^{(k)}}{\partial f^{(k)}} \frac{\partial f^{(k)}}{\partial f^{(k)}} + \frac{\partial f^{(k)}}{\partial f^{(k)}} \frac{\partial f^{(k)}}{\partial f^{(k)}} + \frac{\partial f^{(k)}}{\partial f^{(k)}} \frac{\partial f^{(k)}}{\partial f^{(k)}} \Big|_{(k+2)} \Big|_{(k$$