← Training Neural Networks
Fractor Quiz - 25 min

Training Neural Networks

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✓ Congratulations! You passed! Samp Learning 98.14% Training Neural Networks 100A HONDS 6

1. In this sensitive well look in more detail about back-propagation, using the chain rule, in order to train our neural #14 pales metacols. $|x|^2 = |x|^2 + |x|^2 + |x|^2$ When we are introducted x^2 in the weighted sum of activation and thus.
We can be introducted x^2 in the weighted sum of activation and thus.
We can be introducted to the control of the part of activation and thus the second control of the part of the second control of the part of the second control of the second \checkmark Carrect $\label{eq:calculated} V_{00} \text{ have calculated } C_0 = (-0.100-1)^2 = 1.2.$ 2. The soot inclination of a recomplact in the average of the individual cost functions of the data in the interrupts, $C = \frac{1}{2} \sum_i C_i$ where X_i is the number of examples in the interrupts. $E = \sum_i E_i \sum_{i=1}^{n} E_i \sum_{i=1}^{n$ incluidually, these derivatives take for consensance, $d^{(i)}=\sigma(z^{(i)})$ $z^{(i)}=w^{(i)}z^{(i)}+b^{(i)}$ $C_b=(a^{(i)}-y)^2$ Select all true statements below. $\frac{\partial u^{(t)}}{\partial z^{(t)}} = \sigma'(z^{(t)})$ $\begin{array}{c} \square & \frac{\partial C_k}{\partial a^{(2)}} = (1-y)^2 \end{array}$ $\frac{\partial a^{(t)}}{\partial a^{(t)}} = \sigma$ $\frac{\partial a^{(t)}}{\partial a^{(t)}} = a^{(t)}$ $\frac{\partial C_k}{\partial a^{(t)}} = 2(a^{(t)} - y)$ $\frac{\partial x^{(t)}}{\partial b^{(t)}} = a^{(t)}$ Two distributed after contract amounts

1.1 pages

1. Uning your amount to the previous spection, Net's use it implemented in code.

1.2 pages

1.3 but being you distribute an exemption preferentiated of the last to purp you to requirement the second of the previous previous and previous pr The short in the value was all of more execution to the removals, our quantities are suggested to workers or matrices. The property of the pr $\frac{\partial C_k}{\partial \mathbf{W}^{(2)}} = \frac{\partial C_k}{\partial \mathbf{w}^{(2)}} \frac{\partial \mathbf{u}^{(2)}}{\partial \mathbf{u}^{(2)}} \frac{\partial \mathbf{u}^{(2)}}{\partial \mathbf{W}^{(2)}}$ $\frac{\partial C_b}{\partial \mathbf{W}^{(1)}} = \frac{\partial C_b}{\partial \mathbf{a}^{(2)}} \, \frac{\partial \mathbf{a}^{(1)}}{\partial \mathbf{a}^{(1)}} \, \frac{\partial \mathbf{a}^{(1)}}{\partial \mathbf{c}^{(1)}} \, \frac{\partial \mathbf{a}^{(1)}}{\partial \mathbf{W}^{(1)}}$ Where $\frac{du^{(i)}}{du^{(i)}}$ to self can be expanded to, $\frac{\partial u^{(i)}}{\partial u^{(i)}} = \frac{\partial u^{(i)}}{\partial u^{(i)}} \frac{\partial u^{(i)}}{\partial u^{(i)}}$ $\frac{\partial C_k}{\partial \mathbf{W}^{(r)}} = \frac{\partial C_k}{\partial \mathbf{u}^{(r)}} \underbrace{\frac{\partial \mathbf{u}^{(r)}}{\partial \mathbf{u}^{(r-1)}} \underbrace{\frac{\partial \mathbf{u}^{(r-1)}}{\partial \mathbf{u}^{(r)}} \underbrace{\frac{\partial \mathbf{u}^{(r)}}{\partial \mathbf{u}^{(r)}}}_{\mathbf{B}^{(r)}} \underbrace{\frac{\partial \mathbf{u}^{(r)}}{\partial \mathbf{u}^{(r)}} \underbrace{\frac{\partial \mathbf{u}^{(r)}}{\partial \mathbf{u}^{(r)}}}_{\mathbf{B}^{(r)}} \underbrace{\frac{\partial \mathbf{u}^{(r)}}{\partial \mathbf{u}^{(r)}}}_{\mathbf{B}^{(r)}} \underbrace{\frac{\partial \mathbf{u}^{(r)}}{\partial \mathbf{u}^{(r)}}}_{\mathbf{B}^{(r)}}$ Remembering the activation equation $a^{|\alpha|} = \sigma(x^{|\alpha|})$ $x^{|\alpha|} = w^{|\alpha|}x^{|\alpha|-1} + b^{|\alpha|}.$ $\textcircled{$\widehat{\sigma}'(x^{|\beta|})W^{(\beta)}$}$ $W^{(\beta)}x^{(\beta)}$ $x^{(\gamma)}(x^{|\beta|})$ $x^{(\gamma)}(x^{|\beta|})$ $x^{(\gamma)}(x^{|\beta|})$

 $\bigcirc_{\sigma'(\mathbf{z}^{(j)})\mathbf{W}^{(j-1)}}$