Assignment Project Exam Help Neural Networks

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- Step by Step Example of Backpropagatio

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The Human Brain

- ► Highly complex, non-linear, and parallel "computer"
- Assignment he branches neurons understood
 - https://eduassistpro.github.
 - the artificial neural network (ANN)
 - The human train is the dispiration for NNs tassist_predicate the bra_assist_predicate the bra_sist_predicate the b
 - Great video about the brain https://www.youtube.com/watch?v=nvXuq9jRWKE

The Neuron

biological neuron

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artificial neuron

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History of Neural Networks: McCulloch-Pitts Model

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The inputs and outputs could be either a zero or a one.

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 transmitted (output of 1) or not (output of 0)
- The McCylloche Pritts model lacked a mec which a cruck of the cold assist production of the cold
- Link to the Original Paper https: //link.springer.com/article/10.1007%2FBF02478259

History of the Perceptron

Assignment intraction the perception whith has a Help

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- ► 1969 Marvin Minsky and Seymour Papert published the book
 "Perceptrons" which proved some limit

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History of the Perceptron

Assignifially the perceptron seemed promising but it was quickly local s

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- The papularity of neural letworks result Council assist_production of the art for man assist_production of the art for man assist_production.
- Today deep learning is state of the art for man in machine learning.

The Perceptron

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Source: http://www.andreykurenkov.com/writing/ai/a-brief-history-of-neural-nets-and-deep-learning/

The Perceptron Algorithm

Begin Initialize

Set all of the weights w_i to small random numbers

Assignment Project Exam Help For Fiterations (or until the convergence criteria is met):

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$$\mathbf{Add} \overset{y_j = f(\sum^m w_i x_{ij}) = \begin{cases} 1 & \text{if } w \times > 0 \\ \mathbf{Add} & \mathbf{W} \in \mathbf{Chat} & \mathbf{eeu} \text{ assist_pr} \end{cases}$$

Update each weight as follows:

$$w_i \leftarrow w_i - \eta(y_j - t_j) \cdot x_{ij} \tag{2}$$

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- Is there more than one possible solution?
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- ▶ Is there more than one possible solution?
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