Assignment Project Exam Help Neural Networks

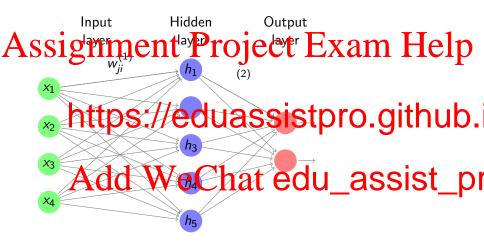
https://eduassistpro.github.

ECS Southampto

Assignment Project Exam Help

https://eduassistpro.github.

Multilayer Perceptron



The Multilayer Perceptron

Assignment Project Exam Help MLPs are fully connected

- https://eduassistpro.github.i

previous slide

The Multilayer Perceptron – Input Layer

Assignment Project Exam Help

https://eduassistpro.github.

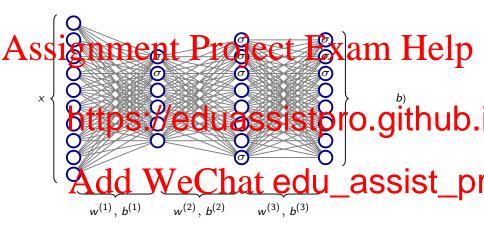
The Multilayer Perceptron – Output Layer

Assignment Project Exam Help

- c neurons in the output layer
 - https://eduassistpro.github.

problem that is being solved - more details lat

Multilayer Perceptrons



Multiple layers of units

Multilayer Perceptron (MLP)

Assignment Project Exam Help

```
wher https://eduassistpro.github.
```

Note, we will define the weighted input term, $z^{(l)} = A(Q(C)) + A(Q(C))$

Multilayer Perceptron (MLP)

Assignment Project Exam Help

(1)

- ² https://eduassistpro.github.
- 5. Add WeChat edu_assist_pr

Assignment Project Exam Help

https://eduassistpro.github.

Activation Functions

- Assignation function in a neural network is a function used Assignation expect unit (xeuzon) to all elp

 - https://eduassistpro.github. function.
 - The input space is mappined to a different spac

 That Code been nearly kind at a Civil Louis assist property in the control of the control of
 - over the years (640+), however, the most c the Sigmoid, Tanh, ReLU, and Softmax

The Logistic (or Sigmoid) Activation Function

Assignment Project Exam Help Re sigmoid function is a special case of a logistic function

- https://eduassistpro.github.
- monotonically increasing
- *Add We Chat edu_assist_pr

Sigmoid Function - Derivative

► The sigmoid function has an easily calculated derivative which

Assignment Project Exam Help

https://eduassistpro.github.

The Hyperbolic Tangent Activation Function

► The tanh function is also "s"-shaped like the sigmoidal function, but the output range is (-1, 1)

```
Assignment Project Exam Help
```

https://eduassistpro.github.

Rectified Linear Units (ReLU)

► The ReLU (used for hidden layer neurons) is defined as:

```
Assignment Project Exam Help
```

https://eduassistpro.github.

Softmax

The softmax is an activation function used at the output layer of a Shoula property for the other to sum to layer of a can represent a probability distribution across a discrete mutually exclu

 $y_j = \frac{1}{N}$ https://eduassistpro.github.

which sum up to 1 and can be thought of as a proba distribution

Question

Assignment Project Exam Help

https://eduassistpro.github.

Question

Assignment Project Exam Help

https://eduassistpro.github.

The Cost Function (measure of discrepancy)

Assignment (MSE) for M data points is given by Assignment (Project Exam Help)The project is given by $\frac{1}{2*M}$ just a constant so can be replaced by $\frac{1}{2}$ or $\frac{1}{M}$

- https://eduassistpro.github.
- Cross-Entropy Cost function is generally assist_process function (discussed religit edu_assist_process)

 $^{^{1}} https://stats.stackexchange.com/questions/154879/a-list-of-cost-functions-used-in-neural-networks-alongside-applications \\ ^{2} http://neuralnetworksanddeeplearning.com/chap3.html$

Cross-Entropy Cost Function

Assignment Project Exam Help where M is the number of training examples

- https://eduassistpro.github.
- by the large the engine estern assist_properties and the engine estern assist_properties and the engine estern assist_properties and the engine estern assist_properties are the engine estern assist_properties and the engine estern assist.