Formulas

Definitions

X represents the matrix of input samples

Forward Propagation

Layers

Dense

Placeholder

Dropout

Placeholder

Recurrent

Placeholder

Convolutional

Placeholder

Activation

Linear

Placeholder

Sigmoid

Placeholder

Rectified Linear Unit

Placeholder

Softmax

Placeholder

Loss

Mean Absolute Error

Placeholder

Mean Squared Error

Placeholder

Binary Cross-Entropy

Placeholder

Categorical Cross-Entropy

Placeholder

Backward Propagation

Layers

Dense

Placeholder

Dropout

Placeholder

Recurrent

Placeholder

Convolutional

Placeholder

Activation

Linear

Placeholder

Sigmoid

Placeholder

Rectified Linear Unit

Placeholder

Softmax

Placeholder

Softmax Categorical Cross-Entropy

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Loss

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Placeholder

Binary Cross-Entropy

Placeholder

Categorical Cross-Entropy

Placeholder