

# Back Propagation

---

## Definitions:

---

Backpropagation is the central mechanism by which neural networks learn. It is the messenger telling the network whether or not the net made a mistake when it made a prediction.

---

## Sources:

---

- <http://neuralnetworksanddeeplearning.com/chap2.html>
- <https://medium.com/datathings/neural-networks-and-backpropagation-explained-in-a-simple-w>
- <https://medium.com/datathings/neural-networks-and-backpropagation-explained-in-a-simple-w>
- <https://pathmind.com/wiki/backpropagation>

# Convolutional (CNN)

---

## Definitions:

---

Deep Learning algorithm which can take in an input image, assign importance (learnable weights and biases) to various aspects/objects in the image and be able to differentiate one from the other. The pre-processing required in a ConvNet is much lower as compared to other classification algorithms.

---

## Sources:

---

- <https://towardsdatascience.com/a-comprehensive-guide-to-convolutional-neural-networks-the>
- <http://deeplearning.stanford.edu/tutorial/supervised/ConvolutionalNeuralNetwork/>