Neural networks are often used to classify data. For instance, if we want to sort data instances in three classes, we can use a network with three outputs. Each output corresponds to a class and the output value (between 0 and 1) represents how likely the instance is from that class, according to the network. If the output is [1,0,0], the instance is certainly from the 1st class. If the output is [0.1, 0.7, 0.1], the instance is likely from the 2nd class.

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This function looks at an output vector and gives the index of the class with the highest value. For [1,0,0], the

function return 0. For [0.1, 0.7, 0.1], the function return 1. If there is a tie, the function returns the smallest of the

[source]

Chooses the most likely class from the given output.

Parameters:: output (*array*) – neural network output

neuralnetwork.print_progress(step, total)

Parameters:: • **step** (*int*) – progress counter

index of the most likely class

• **total** (*int*) – counter at completion

tied indices.

Returns::

Return type:: int

Prints a progress bar.