Summary Backpropagation

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Dipelajari dari https://mattmazur.com/2015/03/17/a-step-by-step-backpropagation-example/

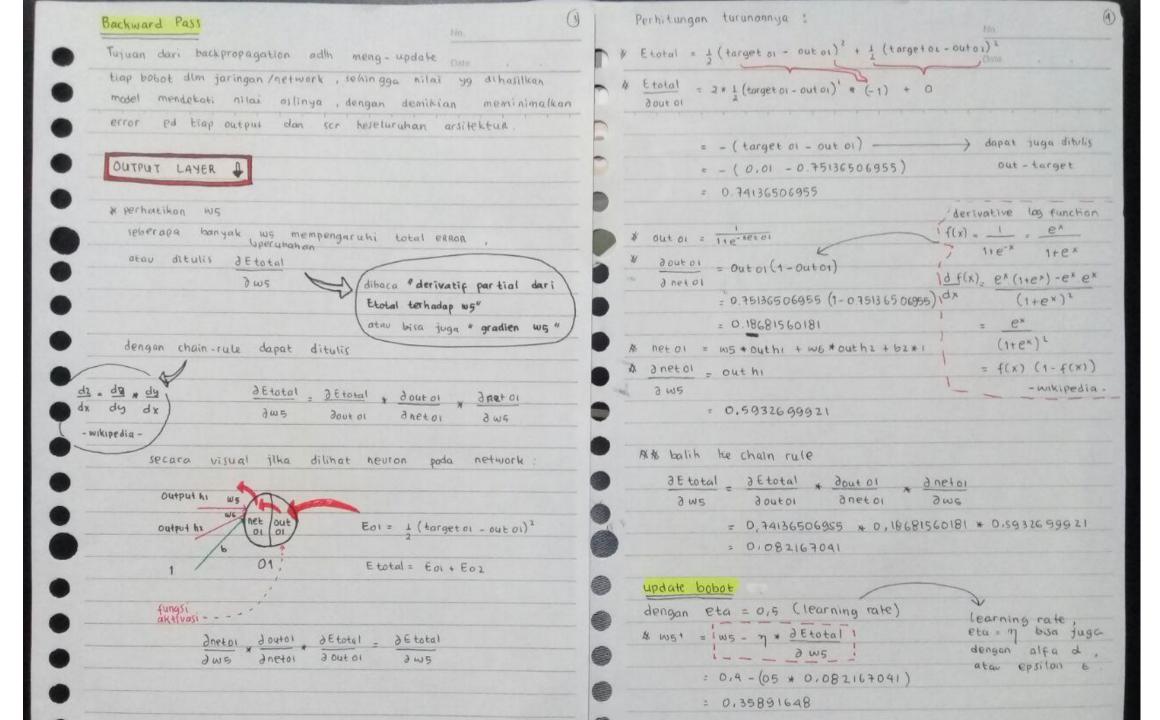
Desain contoh: 2 input, 2 hidden neuron, 2 output neuron

Forward Pass Hidden layer dan Output layer

Menghitung total error dengan MSE

Backprop - Step by Step OUTPUT LAYER Matmazua * net of = w5 * hi + w6 * hz + bz * t (hi, hz out - hasil stlh aktivasi) = 0.4 * 0 593269 + 0.45 * 0.596884 + 0-6 Date = 1,10590596706 Neural Network dengan 2 input, 2 hidden neuron, 2 output neur # out or = 1 = 0,75136506955 or out Hidden dan output memiliki bias 11e-neto1 \$1,33091095198 * net 02 = w7 * hi out + w8 * h200t + b2 * 1 = 05*0593269 + 0.55*0.596884 + 0.6 = 1,22492140409 # OUE 02 = _____ = 0,77292846532 (02 out 1+e-neto2 1,29378078938 (1) 0.35 (1)06 Menghitung Total ERROR hitung error untuk tiap output neuron dengan I Squared Error 19 diolah di atas adalah single training set (1 data sample, 2 attribut) | E = 1 (target - actual) 2 | diberikan input 0,05 dan 0,1 , NN ditrain u/ menghasilkan Etotal = > (target - output) Output 0,01 dan 0,99 torward Pass A Erron OL nenghitung total net input pd tiap neuron di hidden layer, menerapkon Eo1 = 1 (0.01 - 0.75136506955) = 1.0,5496226634 = 0.27481108317 fungsi aktivasi logistic function, ulangi u/ neuron pd layer output A ERROR Da # net input u/ hi E02 = 1 (0.99 - 0.77292846532) = 1 0.64712005116 = 0.02356002558 net hi = wi *ii + wz *iz + b1 *1 = 0.15 *0.05 + 0.2*0.1 + 0.35 = 0-445 0.3775 * Total ERROR * fungsi aktivasi logistik 1 (e = 2,71828) Etotal = E01 + E02 = 0,29837110875 out hi = 1 / = - = 0.593 2699921 hi out 1 1+e-net hi 1+0.68557 4 neth2 = w2 * ii + w4 * i2 + 6, *1 = 0.25 * 0.05 + 0.3 *0.1 + 0.35 *1 = 0.3925 1+e-0.3925 = 1 = 0.59688437826 } hz out 1,6753663 HIDDEN LAYER T

Backward Pass dan update bobot



Backward Pass dan update bobot (2)

