Aim: To implement gradient discent and backpropagation in deep rewal networks.

Objectives:

er optmised method

rewal retworks to update weights

* To implement a simple neural network for

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iterations. less decrease with

PSEUDOCODE: And they again the up is a BEGIN Enitialize weights and bias randomly FOR goods in parge (max-goods) FOR each input sample: * forward paus compute Z=w+X7+6 % apply activation to get A compute subjut production *compute loss: how = contry (y-true, y-pred) # backward pay compute gradients du de ving chair rule update parameters: w= w-ardw 6 - 6 - ad6 END for print after epoch

ENDFOR

OBSERVATION:

*Low devicares as number of iterations invisaries

* weights and bias adjust to minimize error

* backpropagation ensures errors are

offectively distributed layer by layer

* Learning rate (n) questly influences

consumperiors speed.

Result

Therefore implementation of predient ducent and backpropagation in rowal retwork.

+ Epoch 11/4: trades tons low: 0.5954 fraining: (0.5,607). * Epoch 2/4: low: 0.5548 training: 0.5584 * Good 3/4: . 1. hous: 0.5441 haining: 05887 * Epoch 414: 20352 05312 haining: 0.6012 8058: 0.5812 val-low. 2.5568 0.865 0,560 0,855 25.1 02.1 22 1 25.0 20 25.00 6.78 validation ->







