













M T W T F S S

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VOUVA It practise BAN is usually performed in rini-batche > Each minibatch is scaled by mean /variance computed on just that mini batch As mean of zk1 = 0, so in its eg^ This adds some roise to ralus 2 and within that minibatch so simplan to droppet, it adds some zer a contacted as it & gots cancelled roise to each hidden tong layer's outsited adjustions to make mean =0 Romaneters: Will BO YES By redwing batch size noise increases 6 so does regularisation effect. Implementing Grad descert -> Softman Regression for t=1 to no. of min batches:

Compute forward prop on xits C = # classes In each hidden layer use BN to breplace Z with I Use bockprop to compute with pro ris It is used in the over multiple of not just 0 08 1 unit update them s So here instead of one output the of end there will be C logo units -> As we normalize X so that there is not much varionce in input so it frasters the process, BN does the same this to 2007 as Z (17) is findle input to horse hidden layer so it frasters the process by will be (OCXI) not (IXI) instead (IXI) ey: let C=4, = (2) = (3/6) a (6-1) + b (6) - Also we know that not the output of a Activation function : layer depends on the cotput of all layers temp = e(zret) behind it so changing values of any layer before can make great charge in current one. So what batch now does is it expuse no mallon the values charge their means to range doesn't change that much raking learning process only. eet, Z(1) = (3), to (62), to 2t; 176.3 at to

