Lab-09-1 ReLU
Signoidé gradienté foir au
이 분은 OF 아크 가맙니다 항 코 3501 UAM
act propagation 75 du layer 2 2002 2003 263
Gradient of Hel (2) 23-64 => Vanishing gradient
ReLU: $f(x)=\max(o_{i}x)$ X=forch.nn.relu(x)
drop_(ast: Dfxlog batch= H=== H==== H========================
toth.nn. init.normal_ (linearff. weight) == 2) let Pfzlph lineartz relutal == Cross Entropy (0.55 () 0/8
optim. Adam Mg
Lab-09-2 Weight initialization
0.02 37 pt ste the object propagation 79 Wall 2/3/4/9/
* Restricted Boltzmann Machine
· layer Afold Connection of.
YOU SOUTH XE DEEK FOLLOWN SE SOLD X SOLD SOLD SOLD SOLD SOLD SOLD SOLD SOLD
* Pre-fraining
RBM: 5th of layer 3 30 32 2 CHS layer 3 3444
Fine-tuning: RBM OFRICT CEHICHEN LACK PROPAGATION CE

* Xavier/He initialization
· Xavier Normal initialization
W~ N(0, Var(w))
Vah(w)= In that
*Xavier Uniform initialization
Wr U(- 6 Ninthat Minthat tohch, nn. init. xavier unifolm (linears weight) o He normal initialization
Wn N(O, Var(W))
$Val(w) = \sqrt{\frac{2}{n in}}$
· He Uniform initialization
$W \sim U \left(-\sqrt{\frac{6}{n_{in}}} + \sqrt{\frac{6}{n_{in}}}\right)$
Std= gain * math. sqrt(2.0/(fan_in+fan_out))
a=math.5qrt(3.0) \$5td
with torch.no_grad();
heturn tenson Uniform(-a,a)
Lat-09-3 Dropout
* Duel-fitting
Underfitting Overfitting



