Divide Mix

Treaining Data D = (X, y) = {(wi, y)} ]:=1

Unlahed U

boors entropy bos; Ma) = { E yi bog (Prodelvis 0))}

output for C

Panalize the Entropy term!

fl = - E P (x; 0) log (Pmodel (x; 0))

MAroid Near O novemontized low.

ninibatch Labeled Data Juntabel ed data

{(xb, yb, wb); b < 1, -- B}

{ by; b∈ (1, ·· B) }

Z gaussian component (smaller

Data clean preobability wit = P(g| Li)
loss value.

compared with three holded ?

eo-refinement: yb = wbyb+(1-w) pb Ang across deffered -Augmentation (orcediction by ret) label Applying Sharpening: Yo = sharepen (yo,T) = you all to Pain of sample (20, , 22) convergending lakel (A, Pe) 2 ~ Beta (a, a)  $\alpha' = \max (2, 1-2)$   $\kappa' = \alpha x_1 + (1-\alpha)x_2$ Kind of Augmentation.  $\rho' = \alpha \rho_1 + (1-\alpha)\rho_2$ From Q { Cross ontruly by = \frac{1}{|x'|} \geq \text{Prodel (x; \text{B)}) Swastercy du = 1/2 IP-Prode(x, D) 1/2
Aucost Not du = 1/4/ x, pe u' l'e uniform (Regularization = Et log (Troll E pc (x, 0))