Minimum Entropy Regularization @ minimum Intropy regularization

projet out int orcegonal Data L. {xi, yi} xi \ x Some of the label is missing !! Craterain bereivation: New leaving Set In = { Xi, Zi} 4) Zix=1) Le=1, -- 1k priorided.

priorided.

meansyxi'is every body 11

trandomly distributed for an unlabeled case P(z|xi, wk) = P(z|xi, wk) A (ME, MY) : Now, P(wk/x) = Exp(wk/x)

Exp(wk/x) model for P(w= |x)

1 & parameters (concave) conditional log sikelihood L(0, fin) = E log (E zinfk(xi ; D)) + h(zi)

independent of P(x,y)

when unlabeled data is informative.

Conditional Entropy unknown about $y \mid x, b \neq is known$ $H(y \mid x, z) = -E_{xyz} \log [P(y \mid x, z)]$

maximum Entropy in Aug!

Homp(x1x, Z o dn) = - 1 & & p(wk|x1, zi) log P(wk|xixi)

Entropy Regularization:

$$g_{k}(x,z;\theta) = \frac{z_{jk}(x,\theta)}{z_{jk}(x,\theta)}$$

$$= \frac{z_{jk}(x,\theta)}{z_{jk}(x,\theta)}$$

So the maximizer or P(0, W) by P(v,x)x, 2)/conditional.

c(0,x, 1,n) = L(0; fn) - x Hemp(y1x 2; fn)

labeled datay