Treta pseudo labels: Meta pseudo-labels

Teachor, T > Or 1 Data labeled (xc, yc)

Student, S -> Os

Notation Soft preediction T(x, by)

Input data Net params

Pseudo label Optionization: (Review)

$$\theta_{\mathcal{E}}^{PL} = \underset{\mathcal{E}_{\mathcal{U}}}{\text{arg nen }} E_{\mathcal{E}_{\mathcal{U}}} \left[C E \left(T \left(x_{\mathcal{U}}, \theta_{\mathcal{T}} \right), S \left(x_{\mathcal{U}}, \theta_{\mathcal{S}} \right) \right) \right]$$

:= $\mathcal{L}_{\mathcal{U}} \left(\theta_{\mathcal{T}}, \theta_{\mathcal{S}} \right)$

En, ye (E (yr, s (xr; +s))):= Lr (+s) //should be is a function of (D_)

further,

where Θ_s ! (Θ_T) = any min $L_n(\Theta_T, \Theta_S)$

pseudo label adjastment is possible ve

New optimization possiblem unterli everating !

Practical Approximation:

SGD optimization Objective: