Divide and conquer:NCD

Notation:

Objective:

## Compositional Experit:

Batchwise Expends: A linear classifier & C.)

Prediction on April: [yib = \$ (21) ; zi \ ]

I primalized

Notel batch expert: Another projection layer pro. (Normalized)

## lever contropy loss:

Regularization to avoid dans leakage!

$$l_{\text{reof}}(\hat{y}^{\phi}) = \left(\sum_{c \in \hat{\mathcal{Y}}_{c}}(\hat{y}^{\phi})^{2}\right)^{\frac{1}{2}}$$

(tinda entropy loss)

Encourage minimum entropy

classwise Expent:

eon cent 
$$y^{\gamma^{n}} = y^{n} (y^{\prime n} (z_{i}))$$
 [only explorateless]  $\mathcal{L}_{CE} (\hat{y}^{\gamma l}, \hat{y}^{\gamma l}, \hat{y}^{\gamma l}, \hat{y})$ 

## training target:

psendo- labeling: Equally partition the nobel clustery. propo

Batch of novel samples:

clustor centor; W= [w1, w2 --- wes] ∈ 12c°x à

