Pseudo labering Stops

Small data tibe! Large_data_label



- Steps : Train model on small detaset of labeled data
 - · save the loss value for labeled data
 - · Define a(t) function as follows:

$$\alpha(t) = \begin{cases} 0 & t < T_1 \\ \frac{t - T_1}{T_2 - T_1} \alpha_f & T_1 \le t < T_2 \\ \alpha_f & T_2 \le t \end{cases}$$

- · Perform faward pass to get pseudo labels
- · Carculate 1055 for unlabeled data and multiply by LCt)

$$L = \frac{1}{n} \sum_{m=1}^{n} \sum_{i=1}^{C} L(y_i^m, f_i^m) + \alpha(t) \frac{1}{n'} \sum_{m=1}^{n'} \sum_{i=1}^{C} L(y_i'^m, f_i'^m)$$

- · Backpropogate
- Retrain the model as usual using (seudo labers and labered data
- Test moder with unseen data