Algorithm 1: Self-Training

Input: Labelled data $\boldsymbol{L}$, unlabelled data $\boldsymbol{U}$ and classifier $\boldsymbol{H}$

Output: Trained classifier

while $|U| \neq 0$
    Train $\boldsymbol{H}$ with $\boldsymbol{L}$
    Predict labels of $\boldsymbol{U}$
    Select a set $\boldsymbol{T}$ with those data that have the highest probability.
    $\boldsymbol{L} = \boldsymbol{L} \cup \boldsymbol{T}$
    $\boldsymbol{U} = \boldsymbol{U} - \boldsymbol{T}$
endwhile
Train $\boldsymbol{H}$ with $\boldsymbol{L}$
return $\boldsymbol{H}$