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Input: An initial labelled training set \mathcal{L}, an unlabelled pool \mathcal{U}, a k-NN
         classifier \mathcal{C} for classes 1 \dots c, a stopping criterion \mathcal{SC}, a batch size b, a
         set of confidence measures M_i, i = 1 \dots n
Output: A labelled dataset
while SC is not met do
    foreach confidence measure M_i, i = 1 \dots n do
        Identify the threshold: find thres_{ij} and k_{ij}, for j = 1 \dots c;
    end
    ConfSet = \emptyset, NonConfSet = \emptyset, Selected = \emptyset;
    foreach example e \in \mathcal{U} do
        Classify e using the classifier C;
        Calculate m_i using k_{ij} for i = 1 \dots n and j = predicted class of e;
        if m_i > thres_{ij} for any i = 1 \dots n and j = predicted class of e then
            ConfSet = ConfSet + e;
            Set the confidence score: conf(e) = max(m_i);
        else
            NonConfSet = NonConfSet + e;
            Set the confidence score: conf(e) = min(m_i);
        end
    end
    foreach l, l = 1 \dots b do
        if NonConfSet == \emptyset then
            Selected = Selected \cup \{e_l\} where
            conf(e_l) = min(conf(e)), e_l \in ConfSet;
            ConfSet = ConfSet/\{e_l\};
        else
            Selected = Selected \cup \{e_l\} where
            conf(e_l) = min(conf(e)), e_l \in NonConfSet;
            NonConfSet = NonConfSet/\{e_l\};
        end
    end
    Label each e_l \in Selected;
    \mathcal{L} = \mathcal{L} \cup Selected, \mathcal{U} = \mathcal{U}/Selected;
end
```