Algorithm 1 Iterative Algorithm

procedure IterativeAlgorithm(K, e, n_{min})
    $M \leftarrow$ LoadDataset()
    $E \leftarrow$ RandomlySample(M, e)
    $T \leftarrow M - E$
    $i_{\max} \leftarrow n_{min} \times \max(K)$
    for $i \leftarrow 0$ **to** i_{max} **do**
        $seed \leftarrow$ RandomInteger$(0, 1000)$
        $B \leftarrow$ Balance$(T, seed)$
        for $k \in K$ **do**
            $parts \leftarrow 0$
            if $i < \left\lfloor \frac{i_{\max}}{k} \right\rfloor$ **then**
                $parts \leftarrow k$
            else if $i = \left\lfloor \frac{i_{\max}}{k} \right\rfloor$ **then**
                $parts \leftarrow i_{\max} \bmod k$
            for $p \leftarrow 0$ **to** $parts$ **do**
                $partition \leftarrow$ GetPartition(B, p, k)
                $accuracy \leftarrow$ TrainAndEvaluateModel$(partition, E)$
                SaveResults$(i, k, p,$ seed, accuracy$)$