1CHT_comparision

November 12, 2018

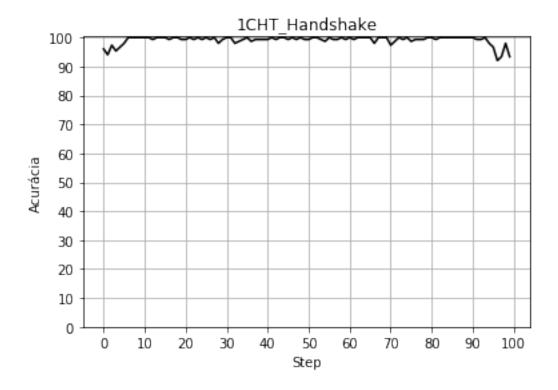
```
In [1]: from source.util import utils as u
        from source import metrics, plots
        from source import handshake2, scarge, hs
        import sys
        import time
        import os
        import psutil
        import resource
In [2]: poolsize = 150
        clusters = 2
        n_{components} = 2
        epsilon = 0.05
        percent = 10
In [3]: base = '/home/localuser/Documentos/procopio/tcc/datasets/1CHT.txt'
        dataset, data_labeled, dataset_train, l_train, stream, l_stream, n_features = u.criar_da
  Handshake
In [4]: start = time.time()
        predicted, updt = handshake2.handshake2(dataset, data_labeled, dataset_train, l_train, s
        end = time.time()
        mem = resource.getrusage(resource.RUSAGE_SELF).ru_maxrss
        tempo = end - start
  SCARGC
In [5]: startScargc = time.time()
        predictedS, updtS = scargc.scargc_1NN(dataset, data_labeled, dataset_train, l_train, str
        endScargc = time.time()
        memS = resource.getrusage(resource.RUSAGE_SELF).ru_maxrss
```

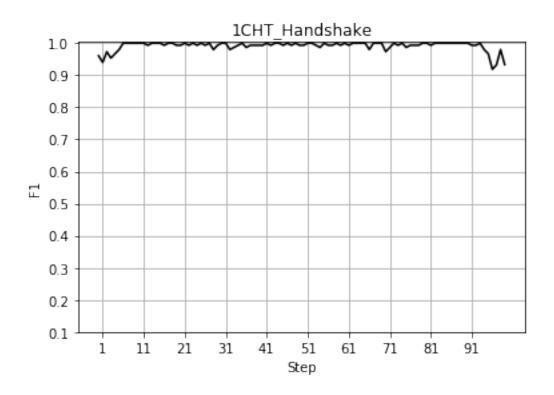
tempoS = endScargc - startScargc

```
return_n_iter=True)
In [6]: acc_percent, f1_per, mcc_per = metrics.makeBatches(l_stream, predicted, len(stream))
        score, f1, mcc, std = metrics.metrics(acc_percent, l_stream, predicted, f1_type = 'macro
        acc_percentScargc, f1_S, mcc_S = metrics.makeBatches(l_stream, predictedS, len(stream))
        scoreS, f1S, mccS, stdS = metrics.metrics(acc_percentScarge, l_stream, predictedS, f1_ty
In [7]: print('Tempo de Execução: ', tempo)
       print('memory peak: ', mem)
        print('Acc: ', score)
        print('Macro-F1: ', f1)
        print('MCC: ', mcc)
        print('Desvio Padrão: ', std)
        print('Numero de atualizações: ', updt)
        plots.plotAcc(acc_percent, 100, '1CHT_Handshake')
        plots.plotF1(f1_per, 100, '1CHT_Handshake')
        print('Tempo de Execução: ', tempoS)
        print('memory peak: ', memS)
        print('Acc: ', scoreS)
        print('Macro-F1: ', f1S)
        print('MCC: ', mccS)
        print('Desvio Padrão: ', stdS)
        print('Numero de atualizações: ', updtS)
        plots.plotAcc(acc_percentScargc, 100, '1CHT_SCARGC')
        plots.plotF1(f1_S, 100, '1CHT_SCARGC')
        listTime = [tempo, tempoS]
        listAcc = [score, scoreS]
        listMethod = ['Handshake', 'SCARGC']
        matrixAcc = [acc_percent[0], acc_percentScargc[0]]
        matrixF1 = [f1_per[0], f1_S[0]]
        plots.plotTime(listTime, listMethod)
        plots.plotAverageAcc(listAcc, listMethod)
        plots.plotAccuracyCurves(matrixAcc, listMethod)
       plots.plotBoxplot('acc', matrixAcc, listMethod)
        plots.plotBoxplot('f1', matrixF1, listMethod)
Tempo de Execução: 17.73112654685974
memory peak: 135640
Acc: 0.9913933426280935
Macro-F1: 0.9914472831308013
MCC: 0.9829143408693337
```

/home/localuser/anaconda3/lib/python3.6/site-packages/sklearn/cluster/k_means_.py:896: RuntimeWa

Desvio Padrão: 0.015197636490167246





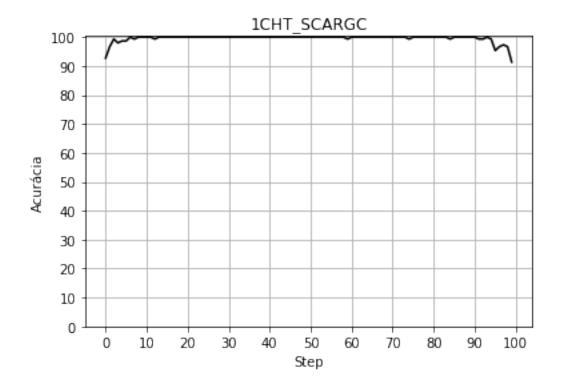
Tempo de Execução: 9.087107419967651

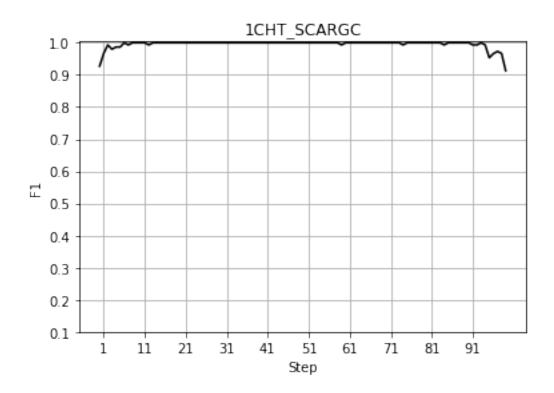
memory peak: 142820 Acc: 0.9956339316835136 Macro-F1: 0.9956578928574675

MCC: 0.9913166476082728

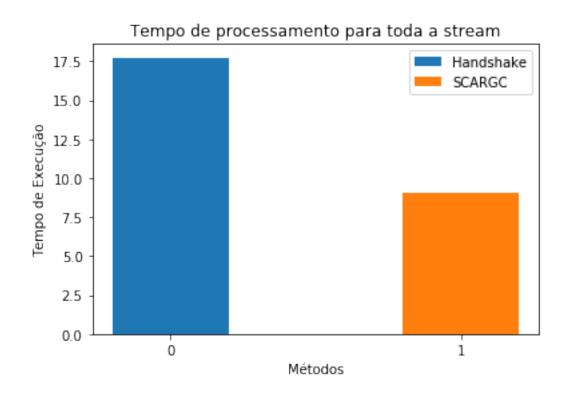
Desvio Padrão: 0.013425077715446047

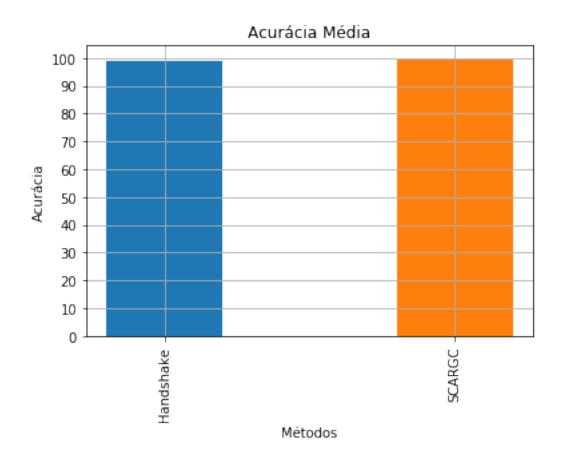
Numero de atualizações: 15

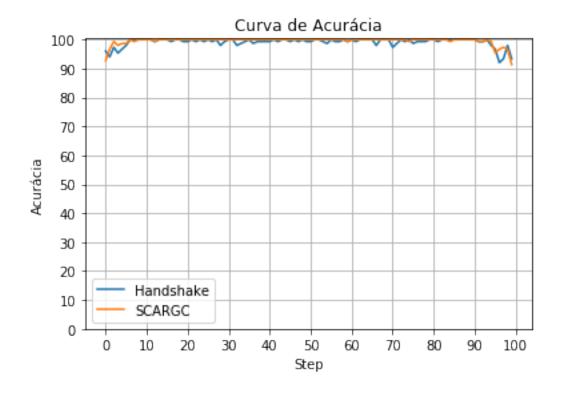


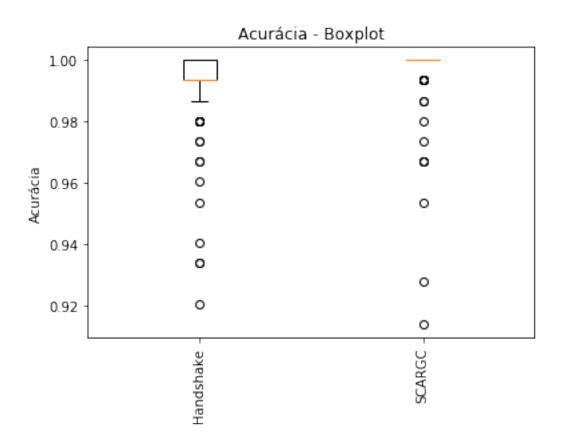


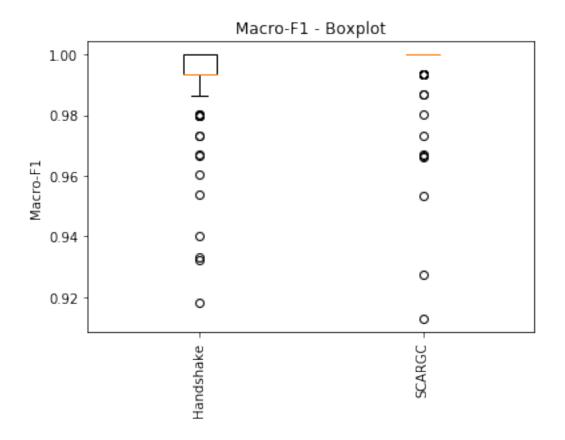
/home/localuser/anaconda3/lib/python3.6/site-packages/matplotlib/cbook/deprecation.py:106: Matpl warnings.warn(message, mplDeprecation, stacklevel=1)



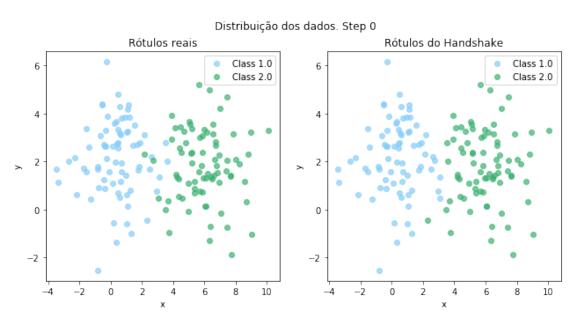


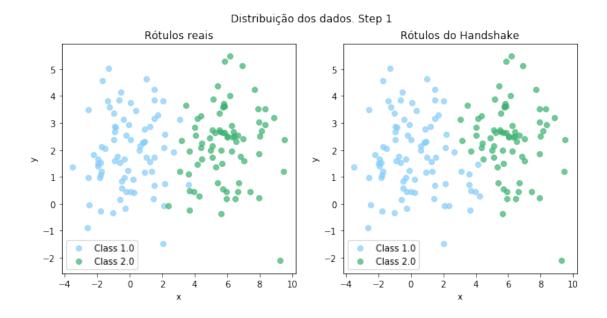


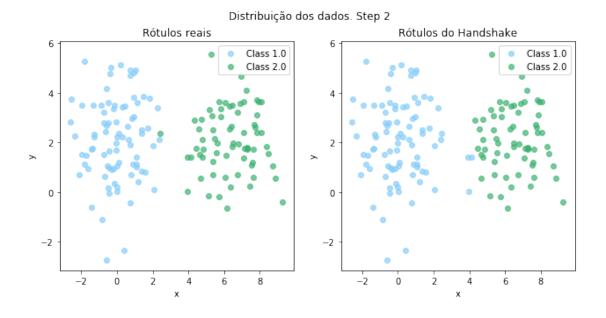




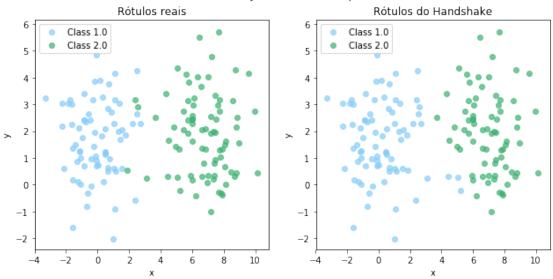
In [8]: plots.plotPerBatches(stream, predicted, l_stream, len(stream))



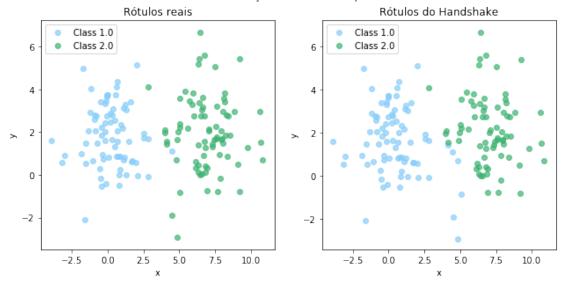


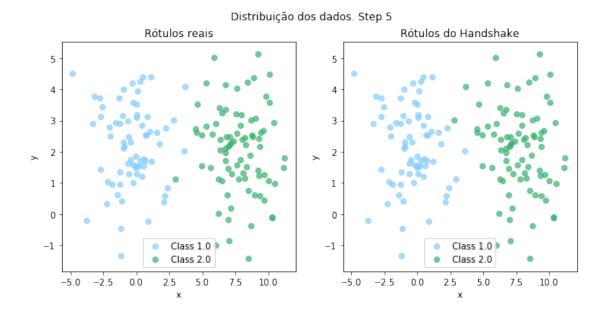


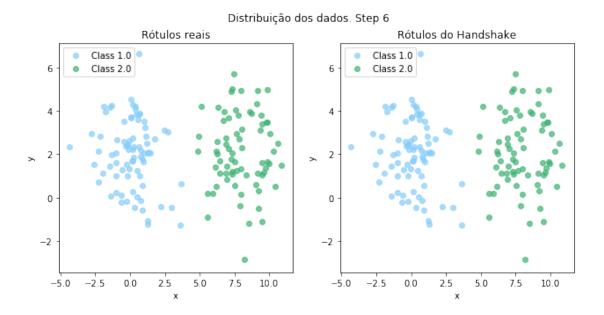
Distribuição dos dados. Step 3

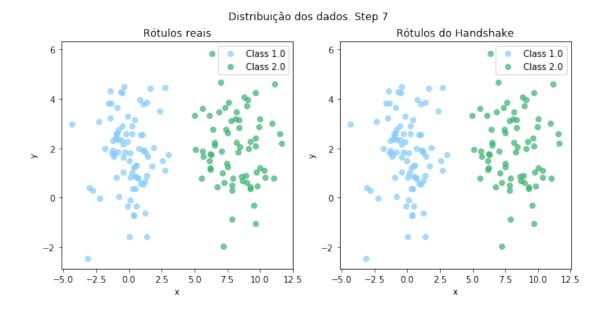


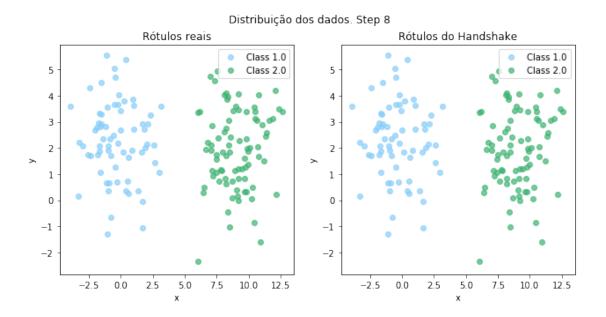
Distribuição dos dados. Step 4

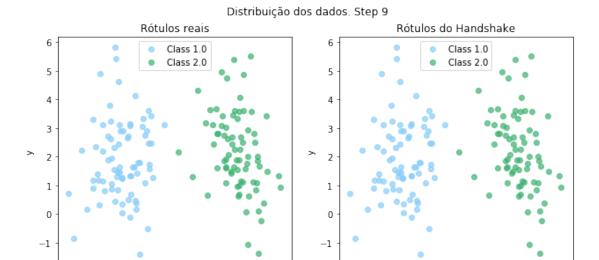












12.5

-2.5

0.0

2.5

5.0

7.5

10.0

2.5

5.0

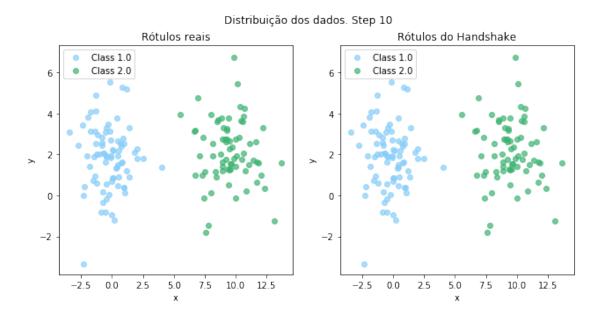
-2.5

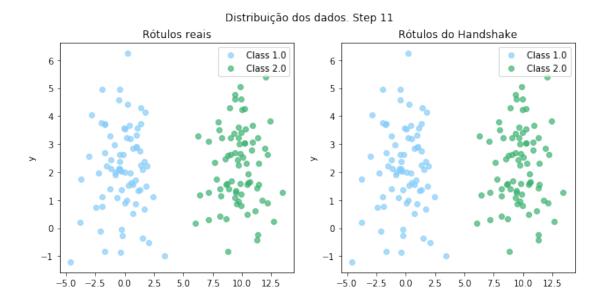
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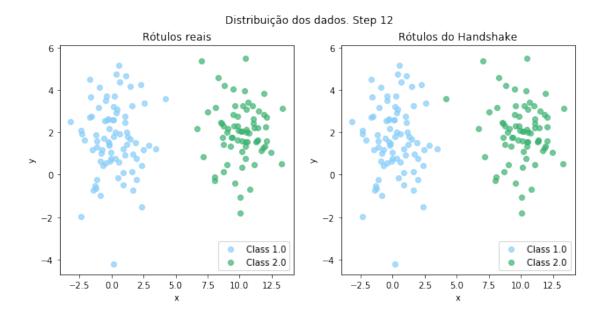
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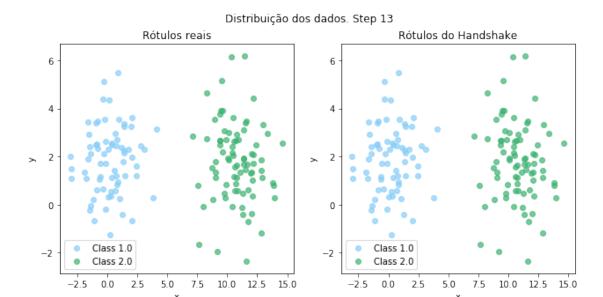
12.5

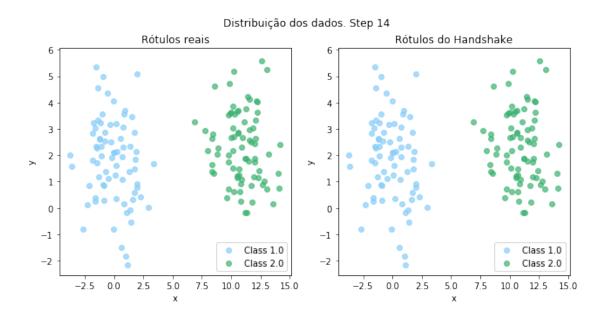
10.0

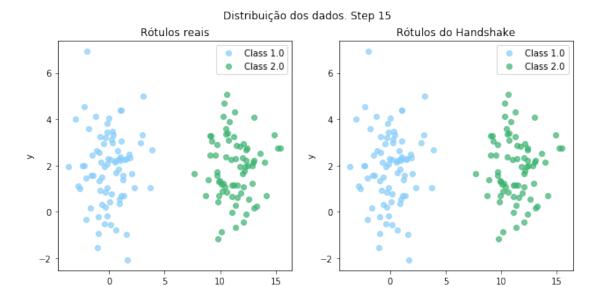


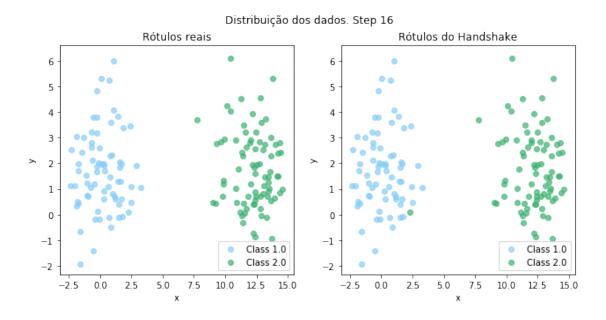


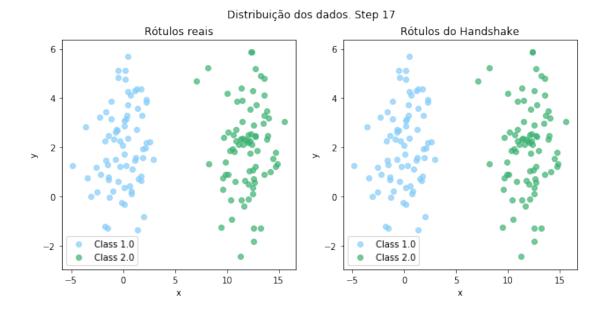


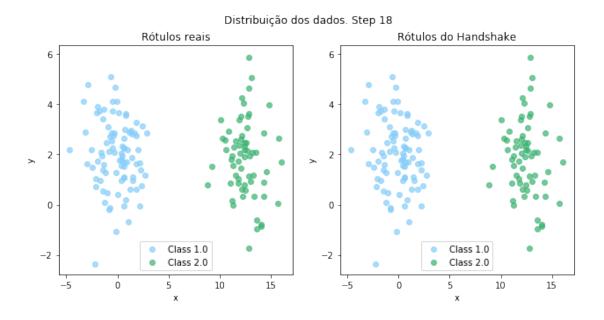


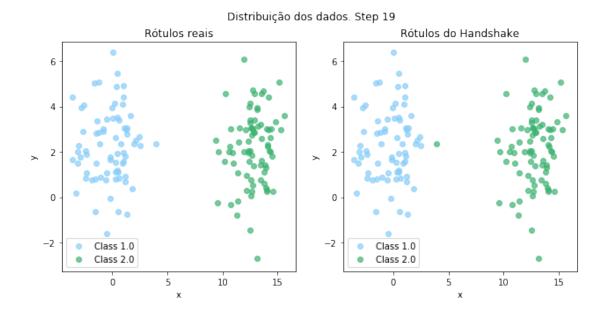


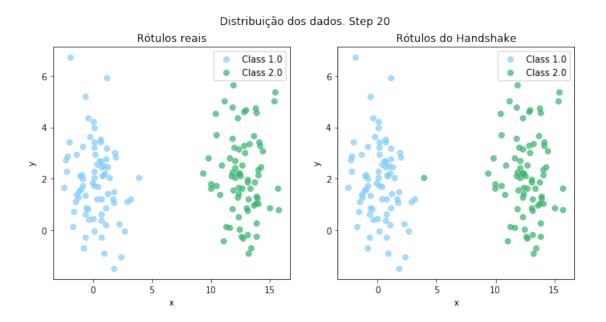


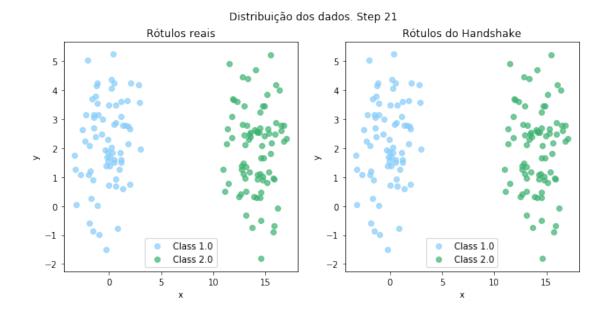


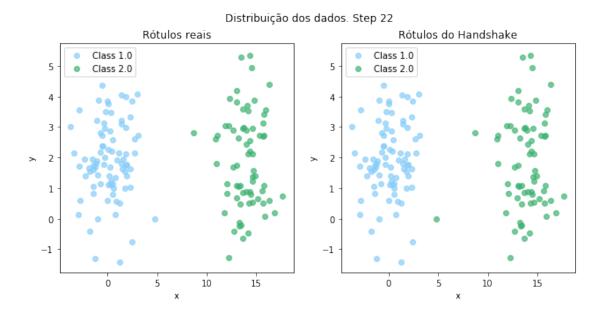


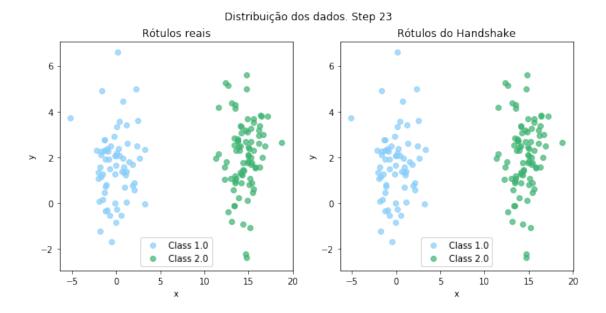


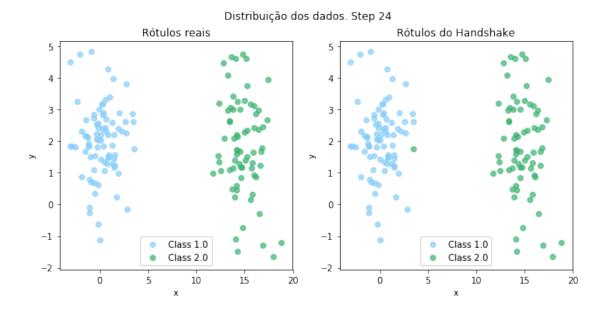


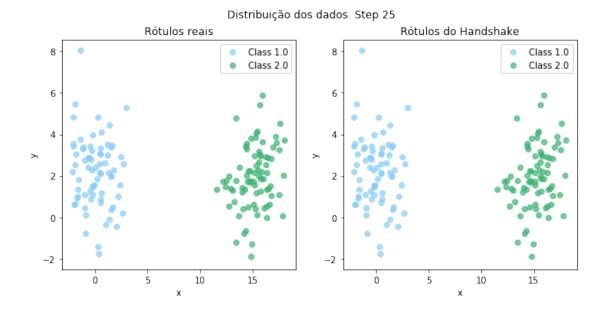


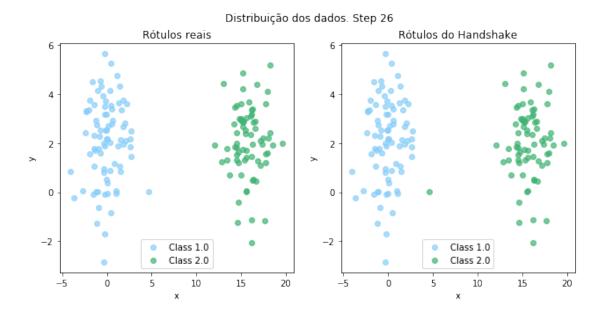


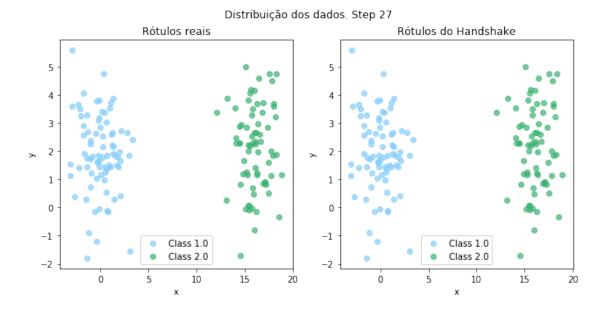


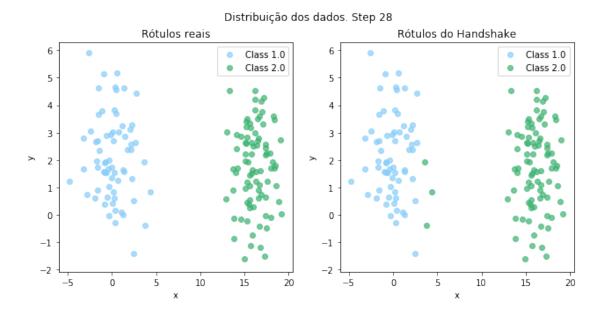


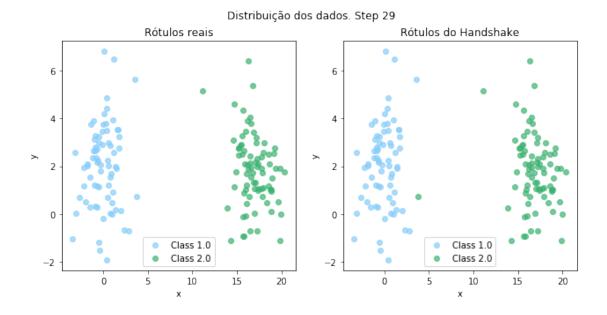


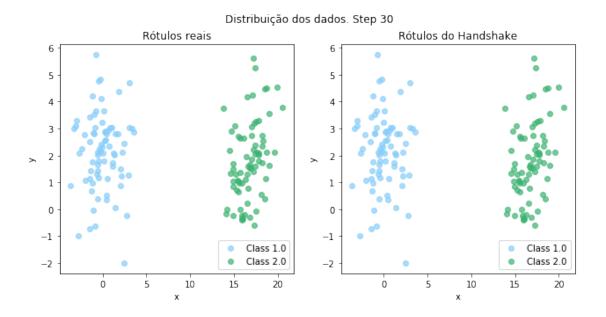


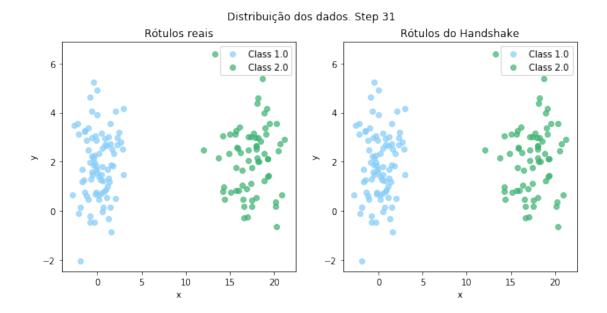


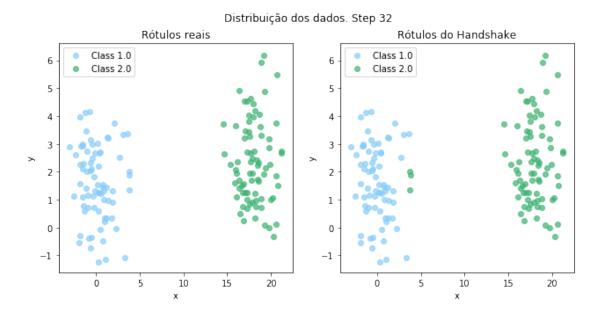


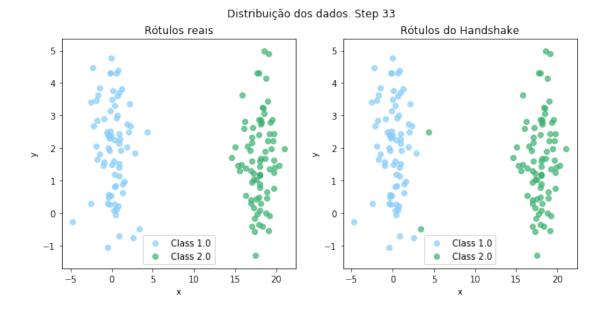


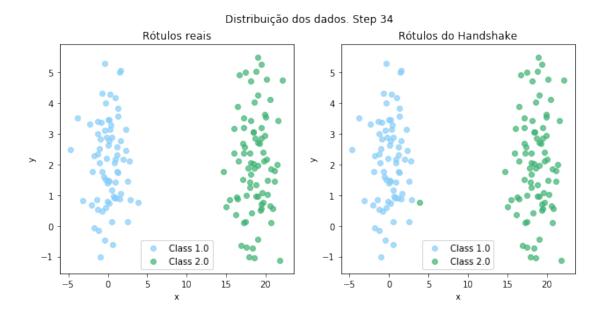


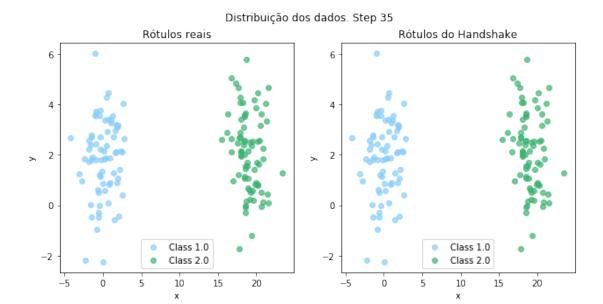


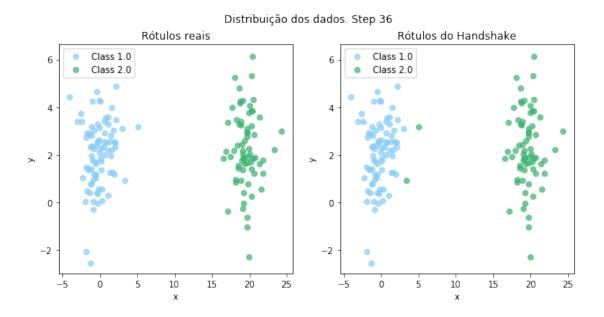


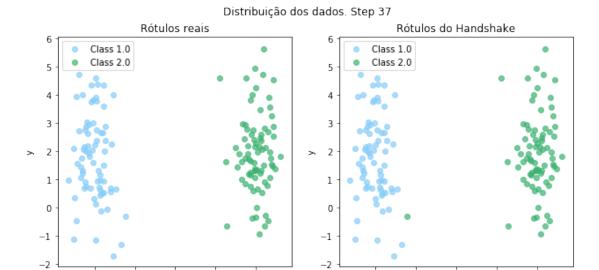






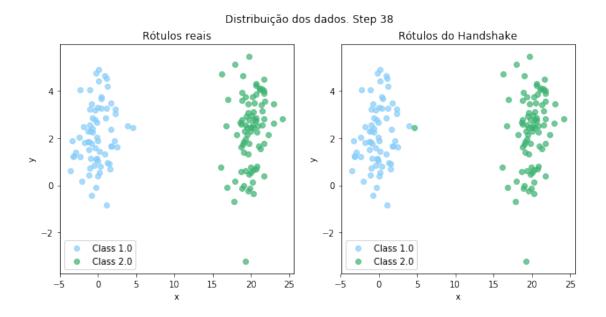


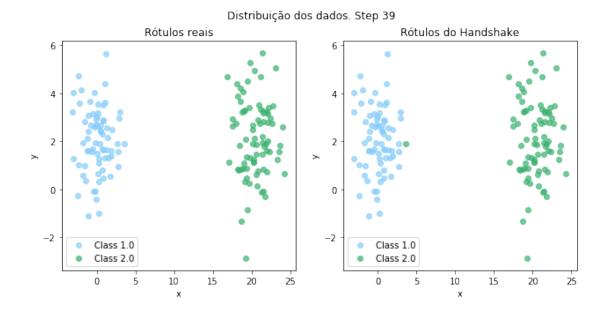


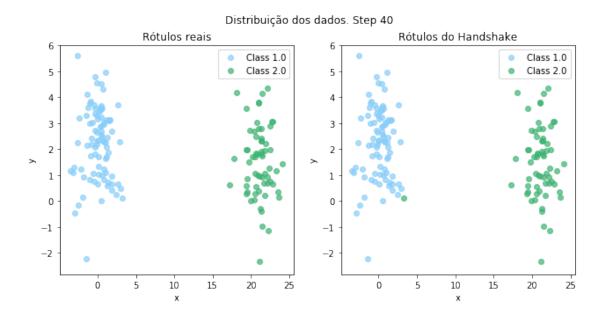


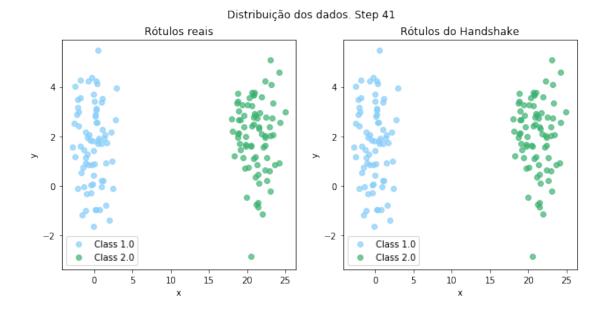
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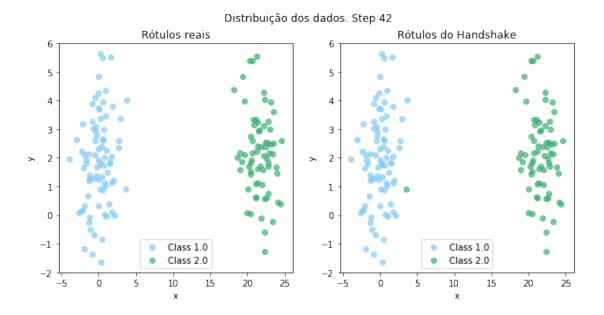
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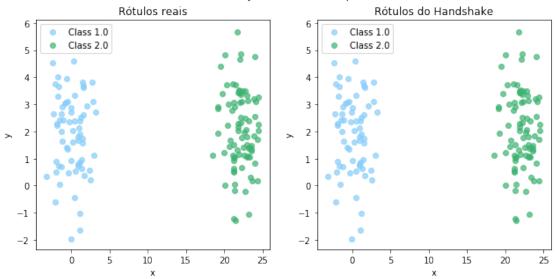




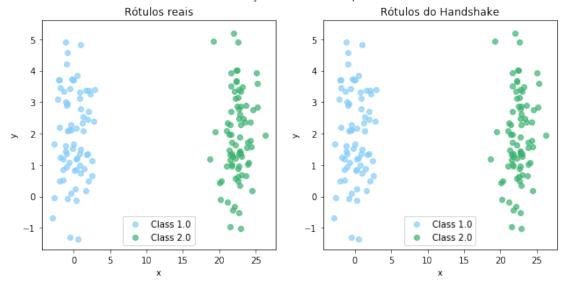


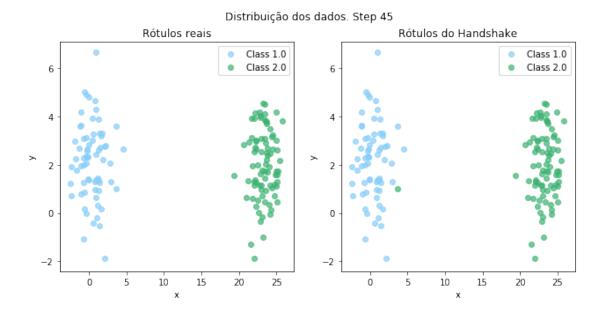


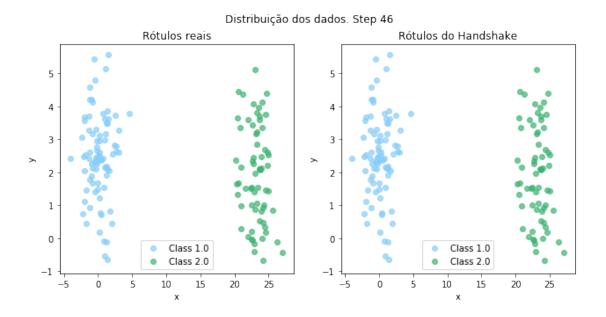


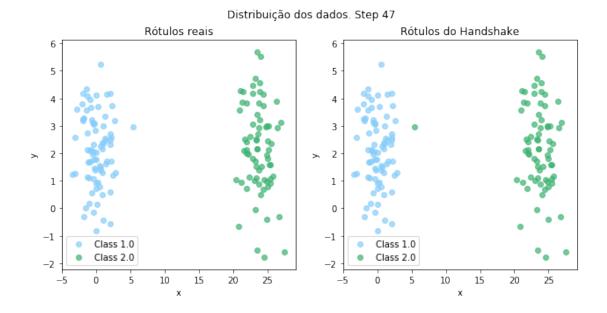


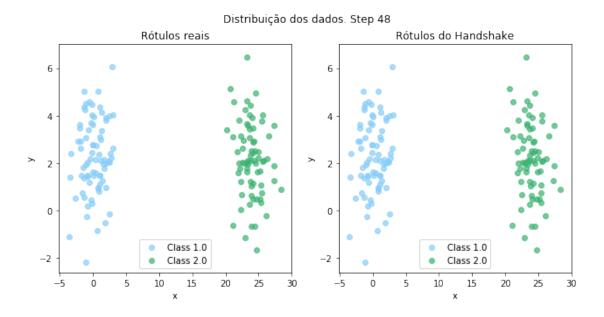
Distribuição dos dados. Step 44

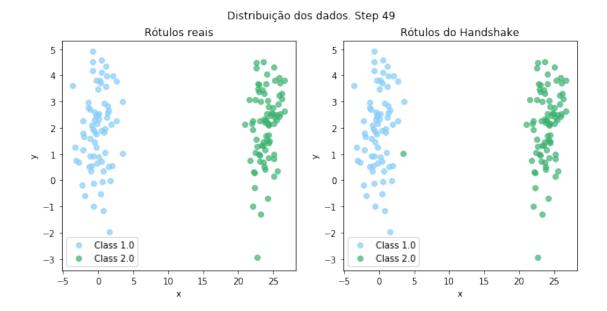


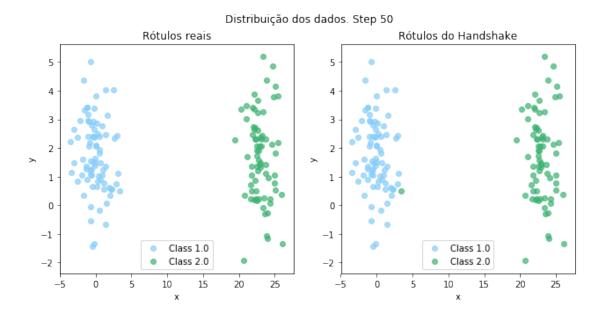


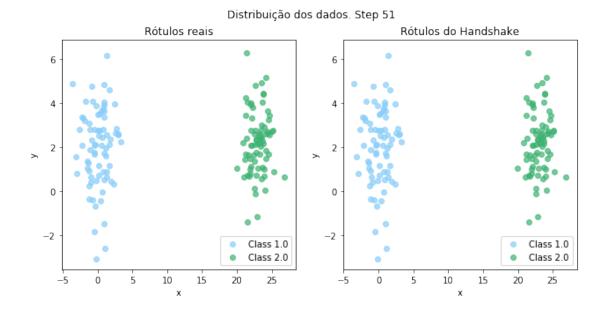


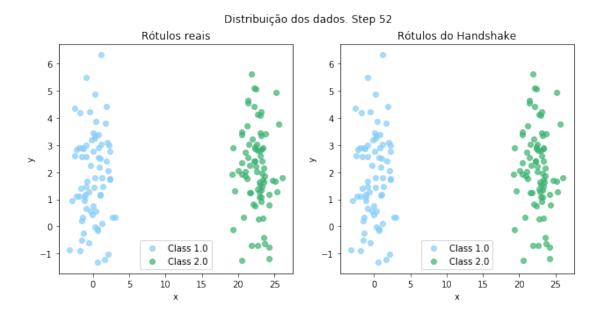


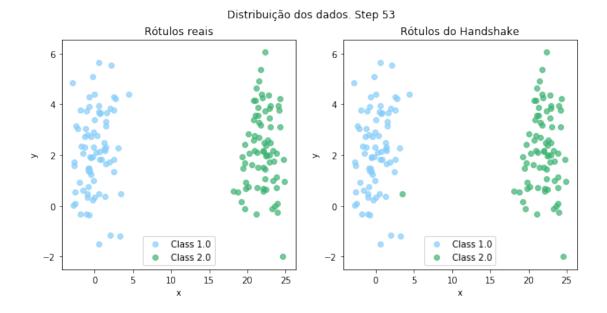


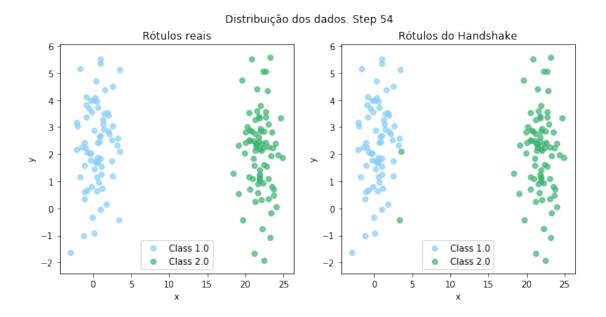












Distribuição dos dados. Step 55

