from aklean bree import Deulsion Tree Classifier from aklean datasets import load_digits train, x test, y-toain, yes y-test = train_test_split Colgets. data, digits. target, test_aize====>0.25) digits = load_digital) dt 2 = Decision Tree Classifier (viiterion = "entocopy") dt2. fik (x-towin, y-test) y-towin) dez. sione (x_test, y-test) dt3 = Decision Tree (lassifier (max-depth = 50) de 3. fit (x tomin, y todin) from skleven, ensemble import Random Foresk Regressor dt3. score (x-test, y-test) of = Random Foxesk Regresson () syl. sure (n_test, y-test), y-pred2 = syl. predict (n_test) np. squet mean-squared - evoien (y-test, y-priedz)) 3) from sklesom dataseks import hoad - digites digits = load - digits (), digits. data. shape from sklearn model - selection import train tesk-aplik x towin, y towin, x test, y-towing y-test = towin-test sport (dugitis. data, digits. touget, test-size= 0.3) index that Emp average imposed numby as mp. index = np. ascrange ('ten(x town)). n-labelled = x-train lindex lisk t: 3191]] y - labelled = y - town (index Lite: 319] mon Labelled Indices = Finder Linke [319:] } of town non Label = np. copy Ly-town) y-train - nonlabel & nonlabelled Indices]=-1 from Akleon, semi-supervised import tabel Propagation, de fit la terain, y torain non label), le scorre (n test, y tex) from skleam. semi_supervised import label spreading ls = label spreading (gamma = 0.3) ls. fit (x town, y-town non label)

1s. store (x test)

1s. store (x test) 7-labelled = transduction - [nonLabelled Indices] from sklean. metrices importe unfusion- matrix conf = conjusion - matrix (y-town thon labelled Indices) labels = ls. clarges