[[ 0 3713 0 0 0 0 0 0 0 0 0 0 0]

[ 0 10517 0 0 0 0 0 0 0 0 0 0 0]

[ 0 2986 0 0 0 0 0 0 0 0 0 0 0]

[ 0 153221 0 0 0 0 0 0 0 0 0 0 0]

[ 0 9754 0 0 0 0 0 0 0 0 0 0 0]

[ 0 3509 0 0 0 0 0 0 0 0 0 0 0]

[ 0 6954 0 0 0 0 0 0 0 0 0 0 0]

[ 0 8345 0 0 0 0 0 0 0 0 0 0 0]

[ 0 6662 0 0 0 0 0 0 0 0 0 0 0]

[ 0 8387 0 0 0 0 0 0 0 0 0 0 0]

[ 0 4467 0 0 0 0 0 0 0 0 0 0 0]

[ 0 3737 0 0 0 0 0 0 0 0 0 0 0]

[ 0 5145 0 0 0 0 0 0 0 0 0 0 0]]

proportion of target 0 in

trai set: 0.0158751099384

proportion of target 1 in

trai set: 0.0465259454705

proportion of target 2 in

trai set: 0.0138962181179

proportion of target 3 in

trai set: 0.672867194371

proportion of target 4 in

trai set: 0.0435356200528

proportion of target 5 in

trai set: 0.0150835532102

proportion of target 6 in

trai set: 0.0304749340369

proportion of target 7 in

trai set: 0.0366314863676

proportion of target 8 in

trai set: 0.0286719437115

proportion of target 9 in

trai set: 0.0363676341249

proportion of target 10 in

trai set: 0.020800351803

proportion of target 11 in

trai set: 0.0161389621812

proportion of target 12 in

trai set: 0.0231310466139

nr features: 453

nr targets: 13

targets are: [0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0]

nr training instances: 22740

nr validation instances: 22740

nr test instances: 409313

... building the model

code in Sda6

theano\_rng 822569775

code in hidden layer

Initial model:

(453, 453)

y.ndim 1

... getting the pretraining functions

da5 get\_corrupted\_input theano\_rng 822569775

... pre-training the model

Pre-training layer 0, epoch 0, cost -105693784251.0

Pre-training layer 0, epoch 1, cost -318270674330.0

Pre-training layer 0, epoch 2, cost -531304060930.0

Pre-training layer 0, epoch 3, cost -744359121286.0

Pre-training layer 0, epoch 4, cost -957414181645.0

Pre-training layer 0, epoch 5, cost -1.17061627827e+12

Pre-training layer 0, epoch 6, cost -1.38414474192e+12

Pre-training layer 0, epoch 7, cost -1.59768512132e+12

Pre-training layer 0, epoch 8, cost -1.81122550072e+12

Pre-training layer 0, epoch 9, cost -2.02476588013e+12

The pretraining code for file source\_t\_source3.pyc ran for 5.28m

... getting the finetuning functions

... finetunning the model

... finetunning the model

patience 20000

epoch 1, minibatch 10000/22740, validation error 95.527704 %

epoch 1, minibatch 10000/22740, test error of best model 95.319474 %

epoch 1, minibatch 20000/22740, validation error 96.394019 %

Optimization complete with best validation score of 95.527704 %,with test performance 95.319474 %

The training code for file mlp5\_train\_model2.pyc ran for 4.59m

done

Result of repetition # 1

training data fraction =1.0

best\_validation error =[95.52770448548813]

mean validation error =95.5277044855

std validation error =0.0

Test error =[95.319474338709014]

mean test error =95.3194743387

std test error =0.0

Time take for train pt layers in sec = [316.99]

Time to train pt layers = mean 316.99(0.00)s

Time take for train ft layers in sec = [276.8299999999999]

Time to train ft layers = mean 276.83(0.00)s

[[ 0 6774 0 0 0 0 0 0 0 0

0 0 0]

[ 0 19158 0 0 0 0 0 0 0 0

0 0 0]

[ 0 5335 0 0 0 0 0 0 0 0

0 0 0]

[ 0 275412 0 0 0 0 0 0 0 0

0 0 0]

[ 0 17477 0 0 0 0 0 0 0 0

0 0 0]

[ 0 6385 0 0 0 0 0 0 0 0

0 0 0]

[ 0 12656 0 0 0 0 0 0 0 0

0 0 0]

[ 0 14942 0 0 0 0 0 0 0 0

0 0 0]

[ 0 12082 0 0 0 0 0 0 0 0

0 0 0]

[ 0 14927 0 0 0 0 0 0 0 0

0 0 0]

[ 0 8132 0 0 0 0 0 0 0 0

0 0 0]

[ 0 6758 0 0 0 0 0 0 0 0

0 0 0]

[ 0 9275 0 0 0 0 0 0 0 0

0 0 0]]

proportion of target 0.0 in

trai set: 0.0166229523645

vali set: 0.0168867910699

test set: 0.0160805640657

proportion of target 1.0 in

trai set: 0.0469852837241

vali set: 0.0447969040883

test set: 0.0471862677553

proportion of target 2.0 in

trai set: 0.0131676901572

vali set: 0.0122839678096

test set: 0.0132074641962

proportion of target 3.0 in

trai set: 0.672481977666

vali set: 0.674298948973

test set: 0.67511983465

proportion of target 4.0 in

trai set: 0.0425688303937

vali set: 0.042949911315

test set: 0.0434043301719

proportion of target 5.0 in

trai set: 0.0157434310754

vali set: 0.0154942171536

test set: 0.0150691156423

proportion of target 6.0 in

trai set: 0.0310376780638

vali set: 0.0311203623624

test set: 0.0296984711004

proportion of target 7.0 in

trai set: 0.0364058990749

vali set: 0.0365000952814

test set: 0.0369545141383

proportion of target 8.0 in

trai set: 0.029567621052

vali set: 0.0289362201146

test set: 0.0288629267506

proportion of target 9.0 in

trai set: 0.0362111479323

vali set: 0.038097890617

test set: 0.0358697723508

proportion of target 10.0 in

trai set: 0.0200091093276

vali set: 0.0194080827922

test set: 0.0197012562483

proportion of target 11.0 in

trai set: 0.0165664117102

vali set: 0.0160952227385

test set: 0.016432372213

proportion of target 12.0 in

trai set: 0.0226319674577

vali set: 0.0231313856843

test set: 0.022413110717