

Miguel Fernández Carratalá

Computer Science Politechnika Krakowska

2019/20

Index

Softmax Linear	3,4
Softmax 1HL	5,0
Softmax 2HL (with Regularization)	7,8

Softmax Linear

dloss: 2.3147547148661394 erate: 0.9459833333333333

errors: 56759

test dloss: 2.3143767699461866

test errors: 9465 test errors: 9465 starting learning...

Best test error rate: 22.17%

iteration 10

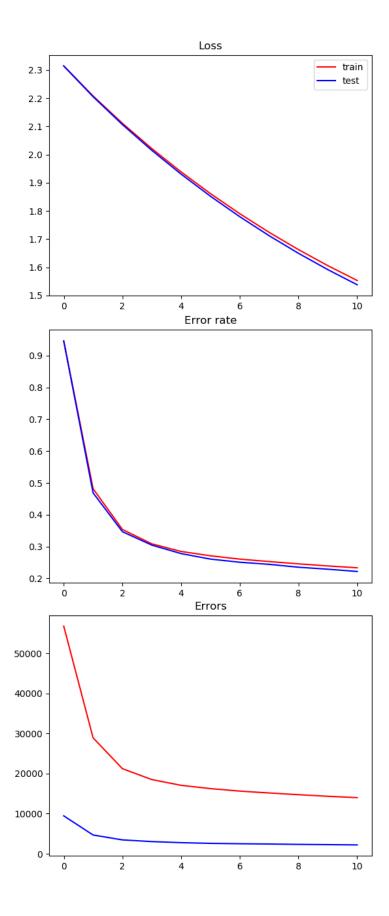
dloss: 1.5529986623536052

erate: 0.23325 errors: 13995

test dloss: 1.5378862393776809

test errors: 2217 test errors: 2217 learning finished

Minimum training error rate: 0.23325 for iteration 10 Minimum testing error rate: 0.2217 for iteration 10



Softmax1HL

dloss: 2.3246583268448355 erate: 0.8876333333333334

errors: 53258

test dloss: 2.3240356990868536

test errors: 8865 test errors: 8865 starting learning...

Best test error rate: 44.82%

iteration 10

dloss: 1.9817155348023965 erate: 0.4477666666666665

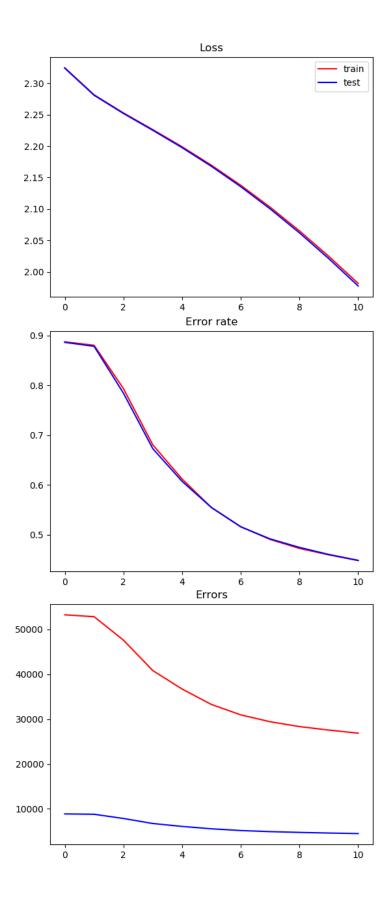
errors: 26866

test dloss: 1.97754489417988

test errors: 4482 test errors: 4482 learning finished

Minimum training error rate: 0.447766666666666 for iteration 10

Minimum testing error rate: 0.4482 for iteration 10



Softmax2HL with Regularization

dloss: 2.3477924348368266

erate: 0.90085 errors: 54051

test dloss: 2.3464896031145757

test erate: 0.8991 test errors: 8991 starting learning...

Best test error rate: 89.91%

iteration 10

eta 0.1

dloss: 2.324300303543091

erate: 0.90085 errors: 54051

test dloss: 2.323337227715131

test erate: 0.8991 test errors: 8991 learning finished

Minimum training error rate: 0.90085 for iteration 0 Minimum testing error rate: 0.8991 for iteration 0

