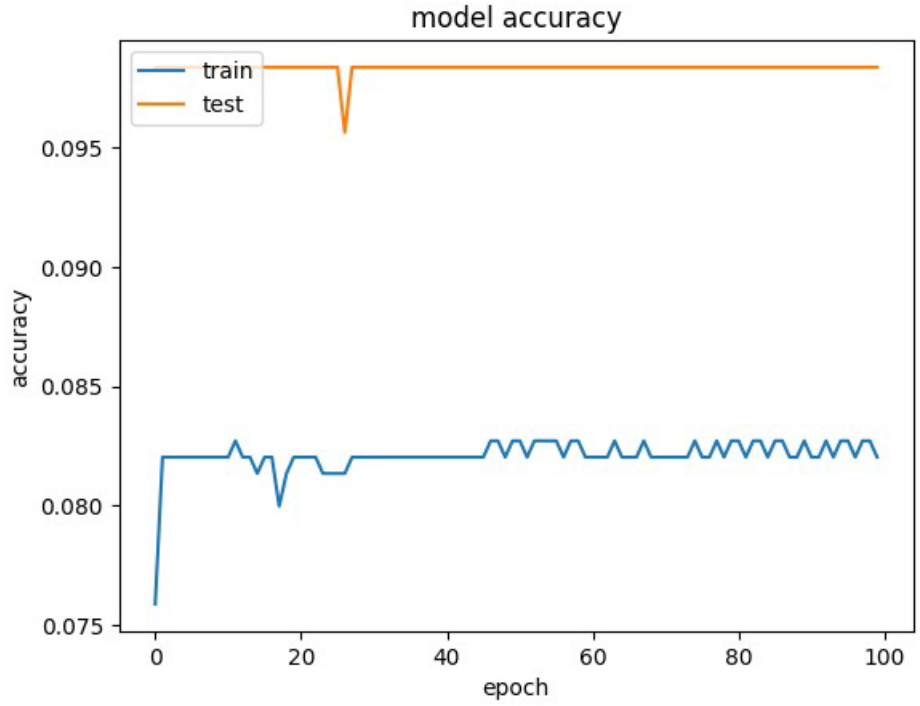
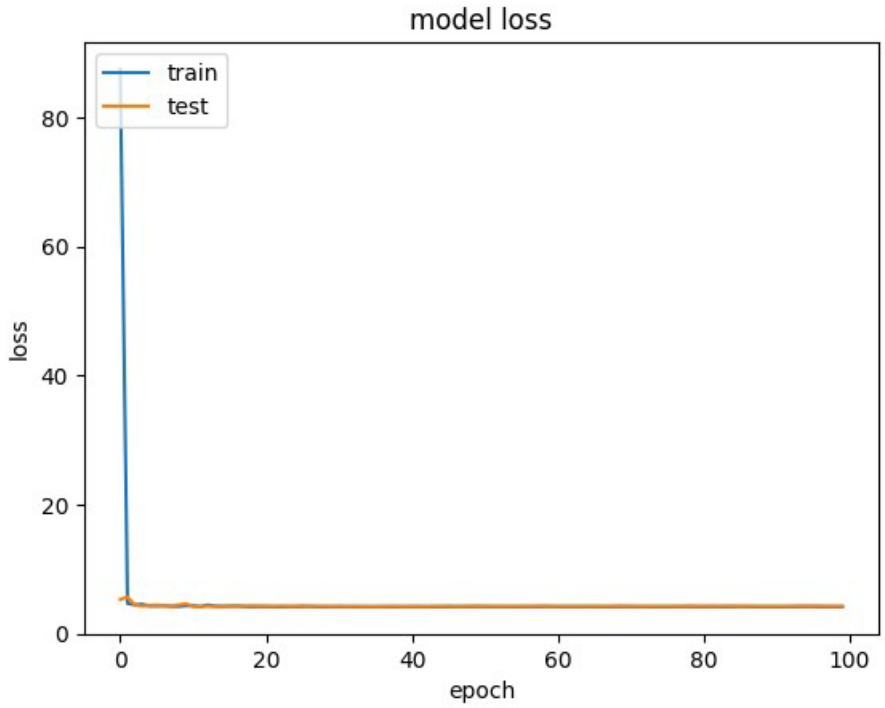
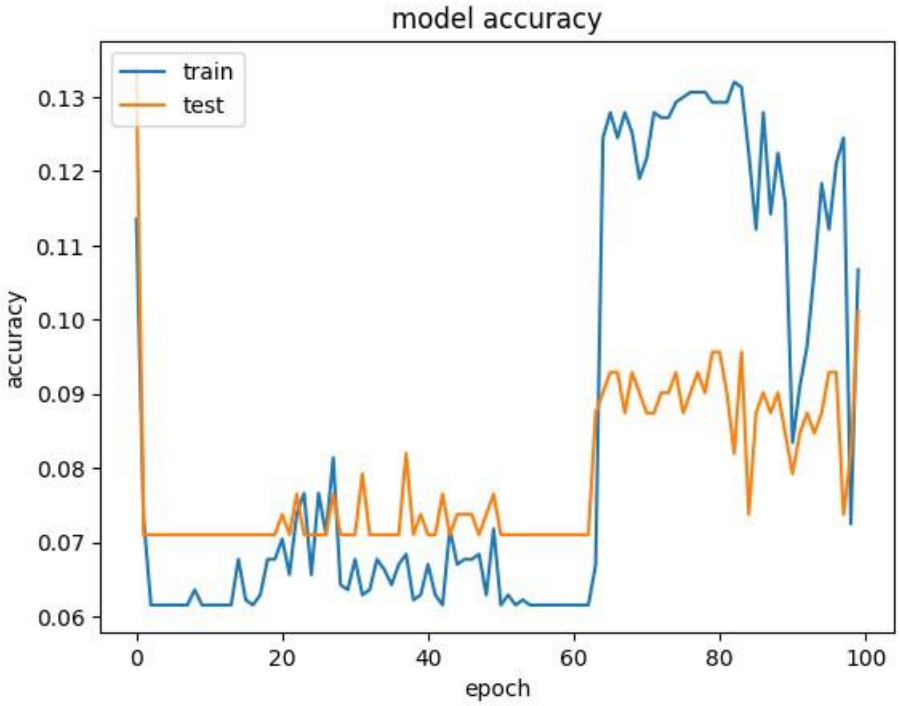
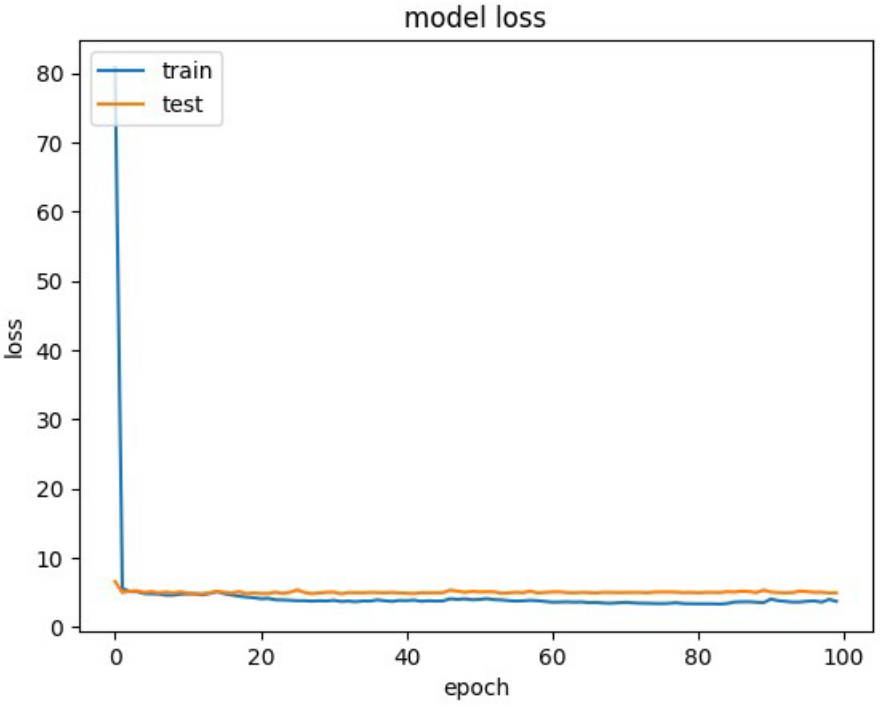
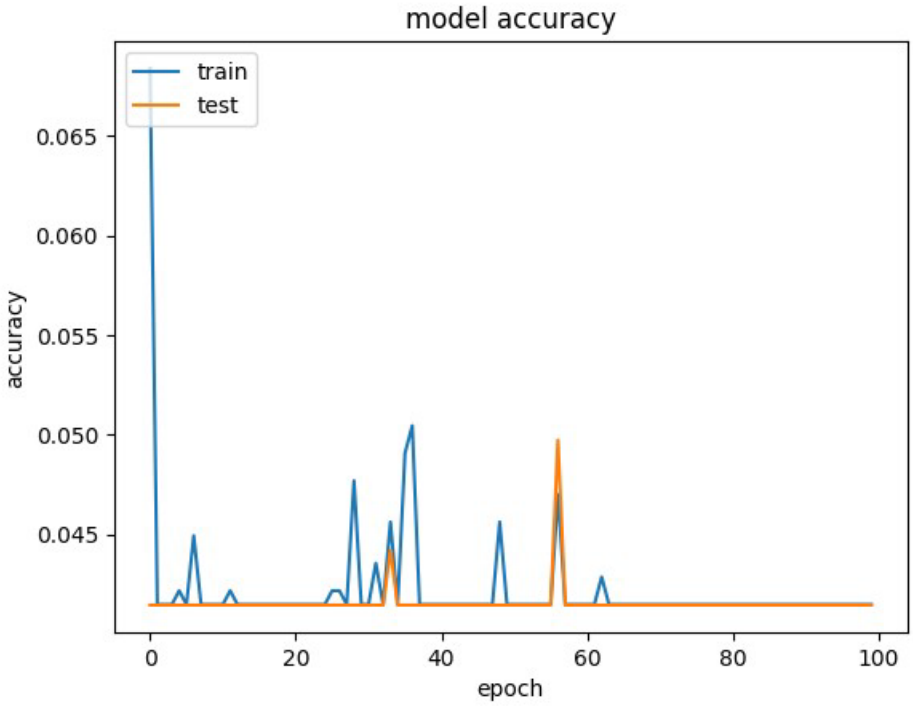
Starter

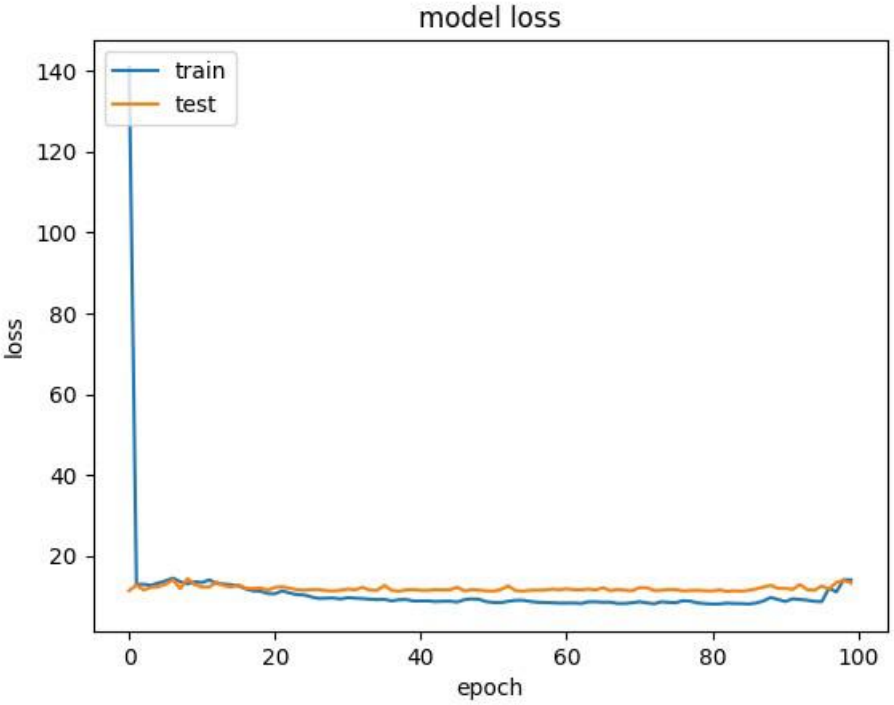

model accuracy
train
test
0.095
0.090
0.085
0.080
0.075
accuracy
0
20
40
60
80
100
epoch

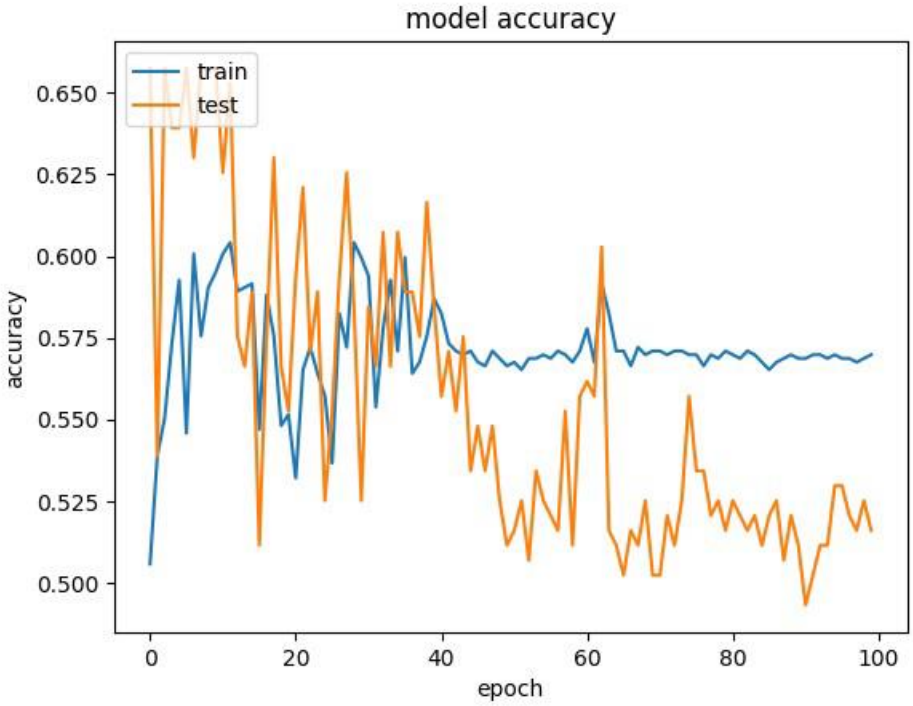

model loss
train
test
80
60
40
20
0
loss
0
20
40
60
80
100
epoch

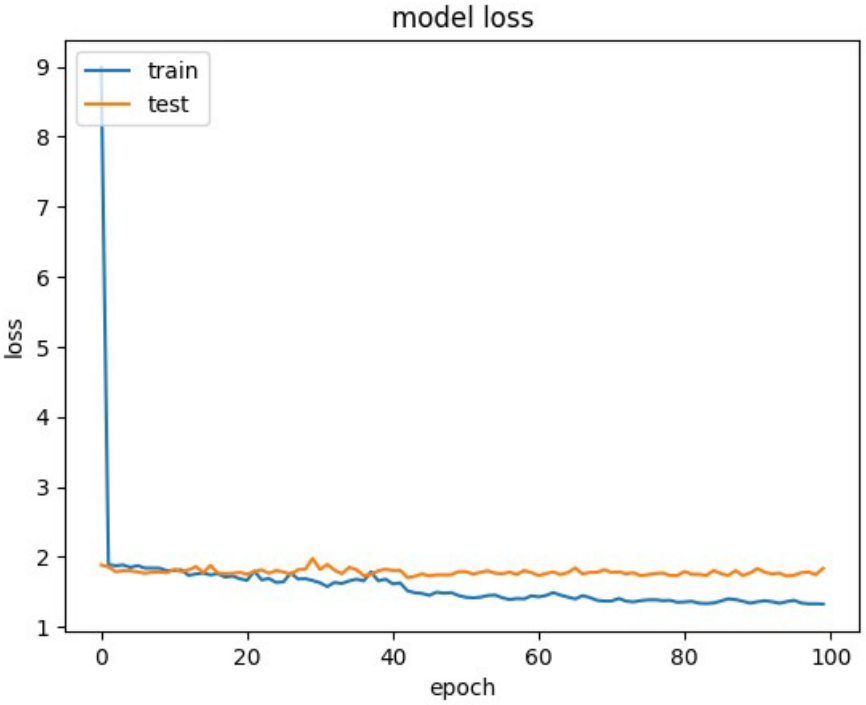

model accuracy
train
test
accuracy
epoch
0.06
0.07
0.08
0.09
0.10
0.11
0.12
0.13
0
20
40
60
80
100


model loss
train
test
loss
epoch
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100

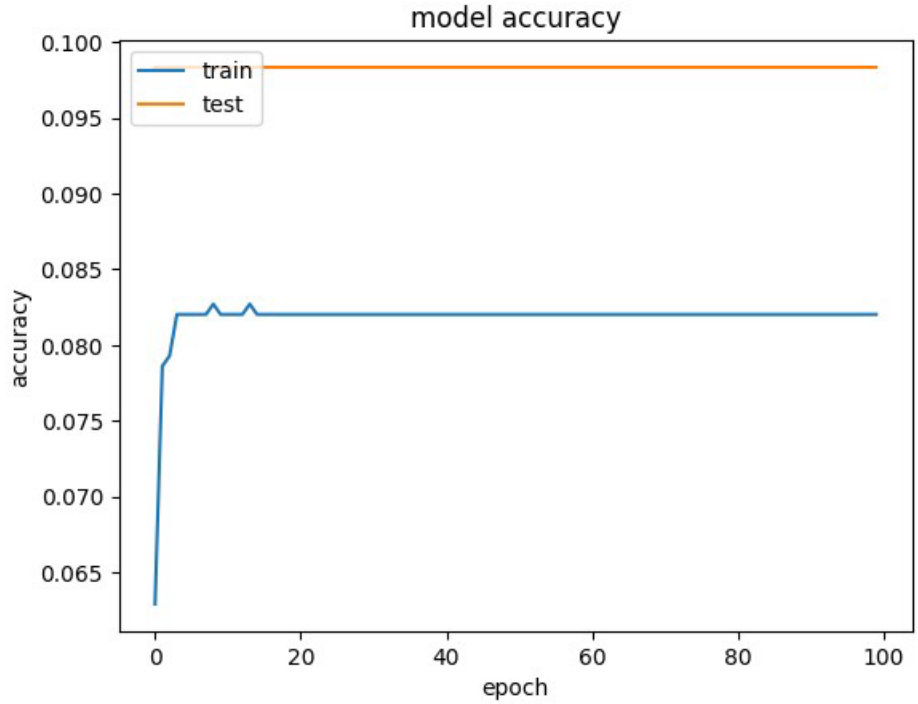

model accuracy
train
test
accuracy
0.065
0.060
0.055
0.050
0.045
0
20
40
60
80
100
epoch

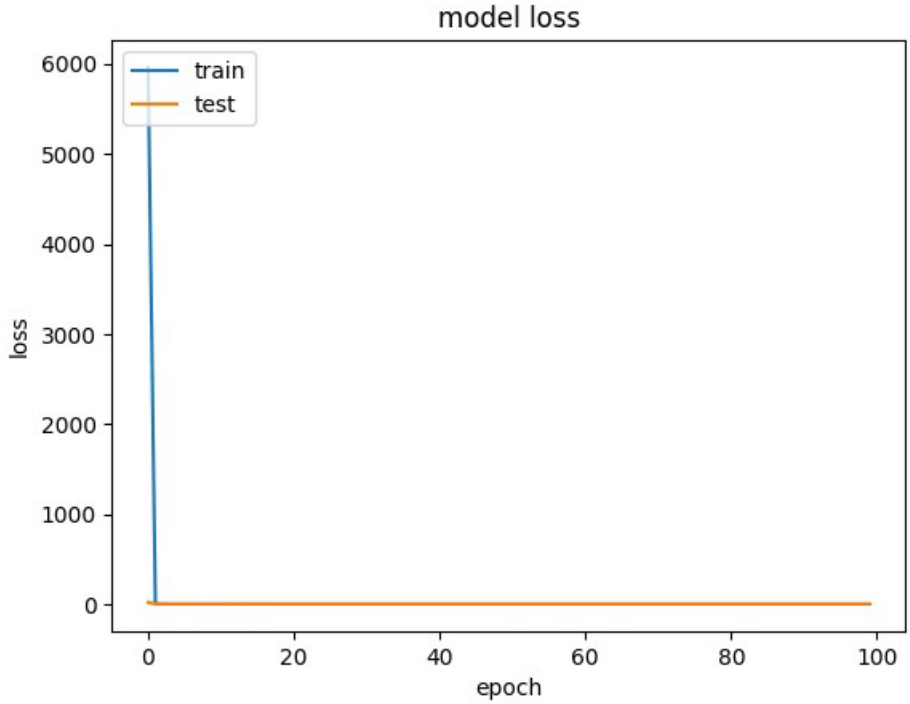

model loss
train
test
loss
140
120
100
80
60
40
20
0
20
40
60
80
100
epoch

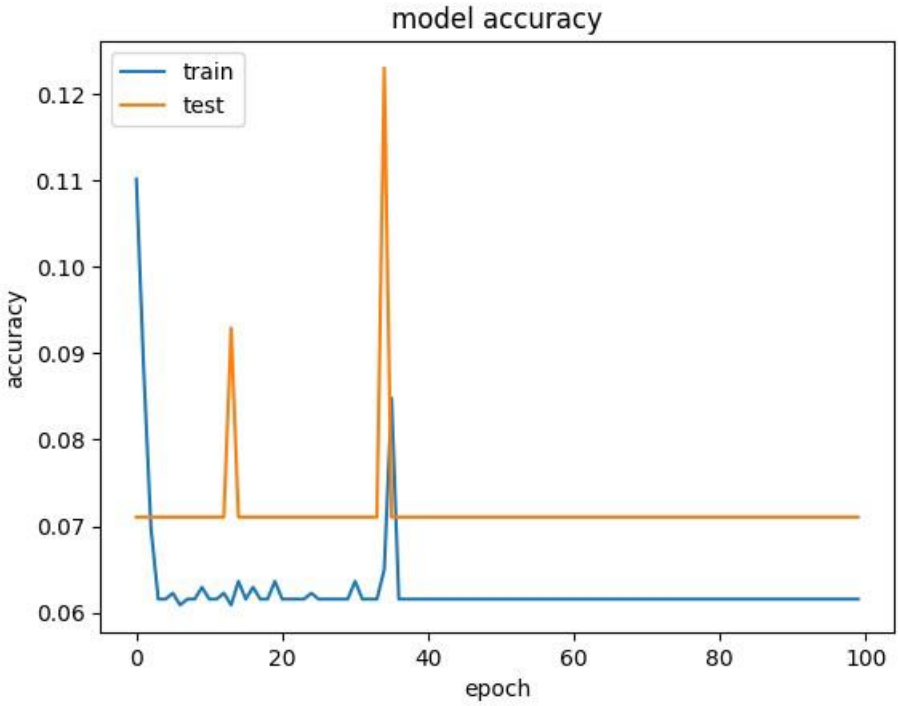

model accuracy
train
test
accuracy
epoch
0.650
0.625
0.600
0.575
0.550
0.525
0.500
0
20
40
60
80
100

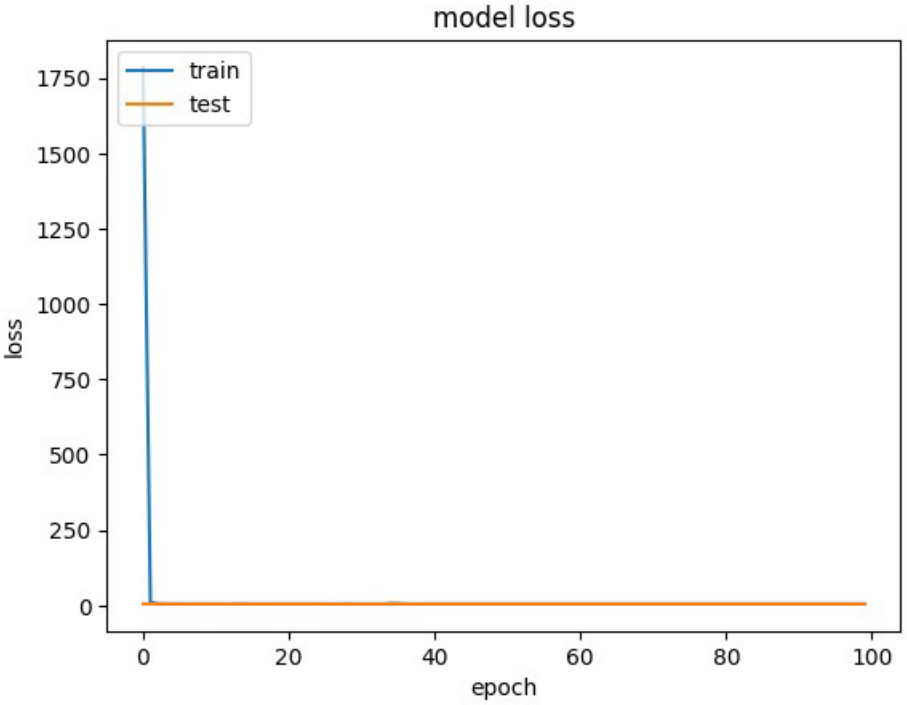

model loss
train
test
loss
epoch
9
8
7
6
5
4
3
2
1
0
20
40
60
80
100

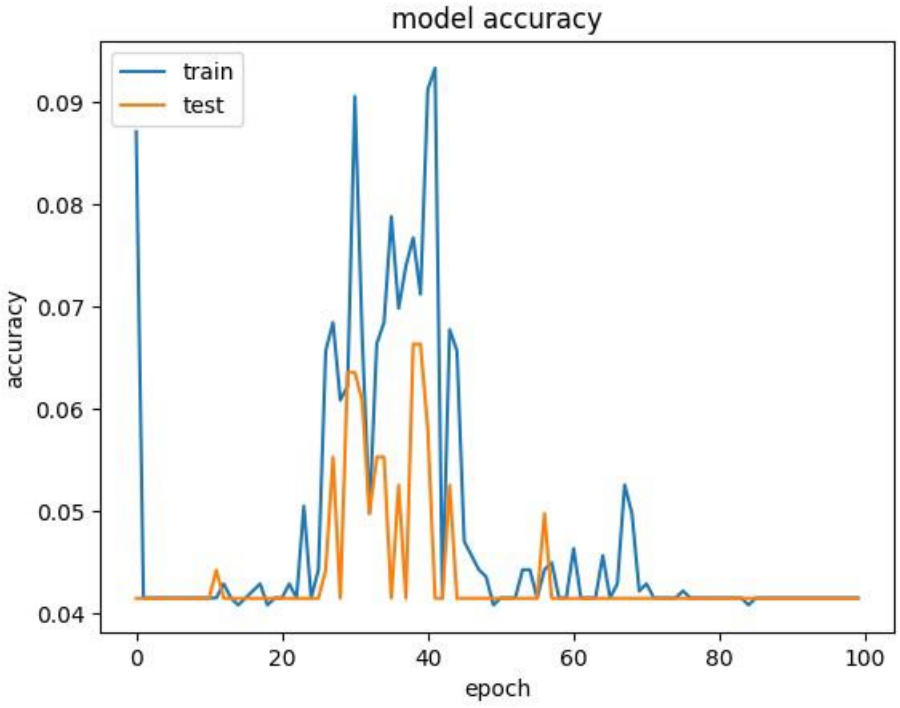
More layers

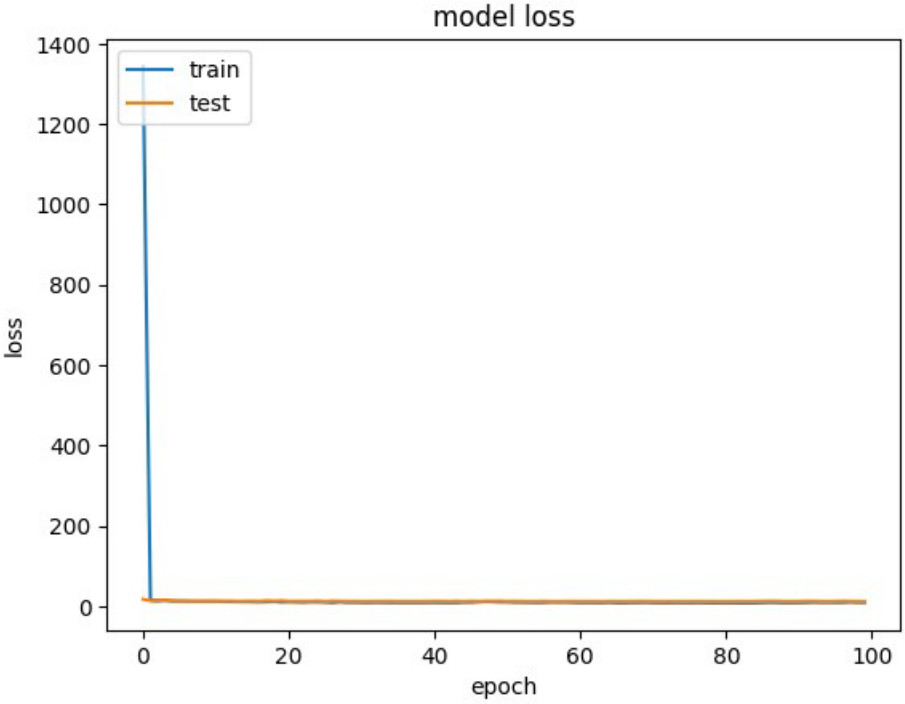

model accuracy
train
test
accuracy
epoch
0.100
0.095
0.090
0.085
0.080
0.075
0.070
0.065
0
20
40
60
80
100

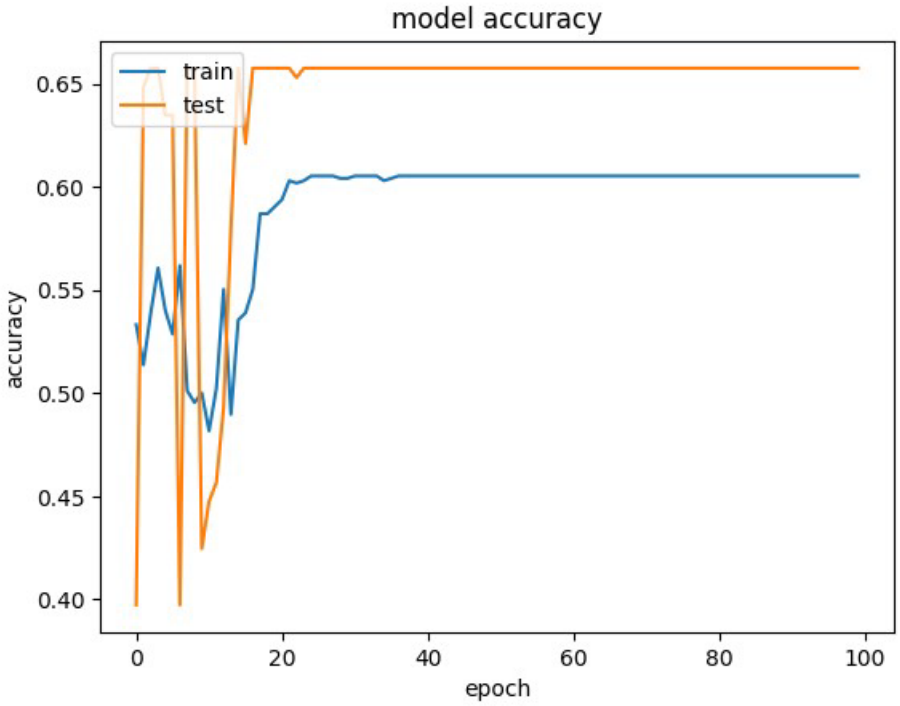

model loss
train
test
loss
epoch
6000
5000
4000
3000
2000
1000
0
0
20
40
60
80
100

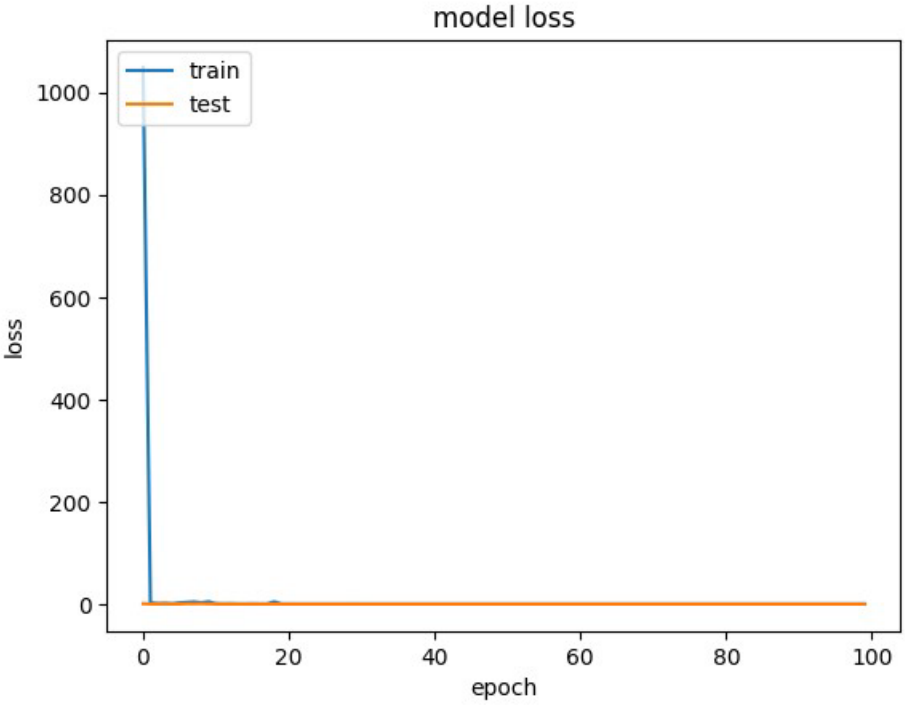

model accuracy
train
test
accuracy
epoch
0.06
0.07
0.08
0.09
0.10
0.11
0.12
0
20
40
60
80
100


model loss
train
test
loss
epoch
0
250
500
750
1000
1250
1500
1750
0
20
40
60
80
100

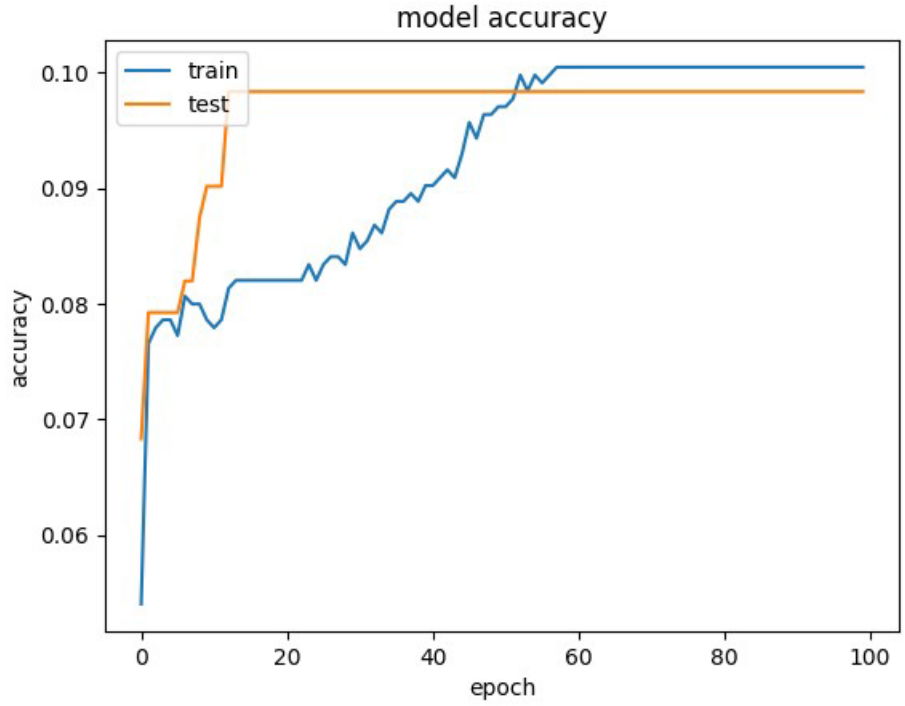

model accuracy
train
test
accuracy
epoch
0.04
0.05
0.06
0.07
0.08
0.09
0
20
40
60
80
100

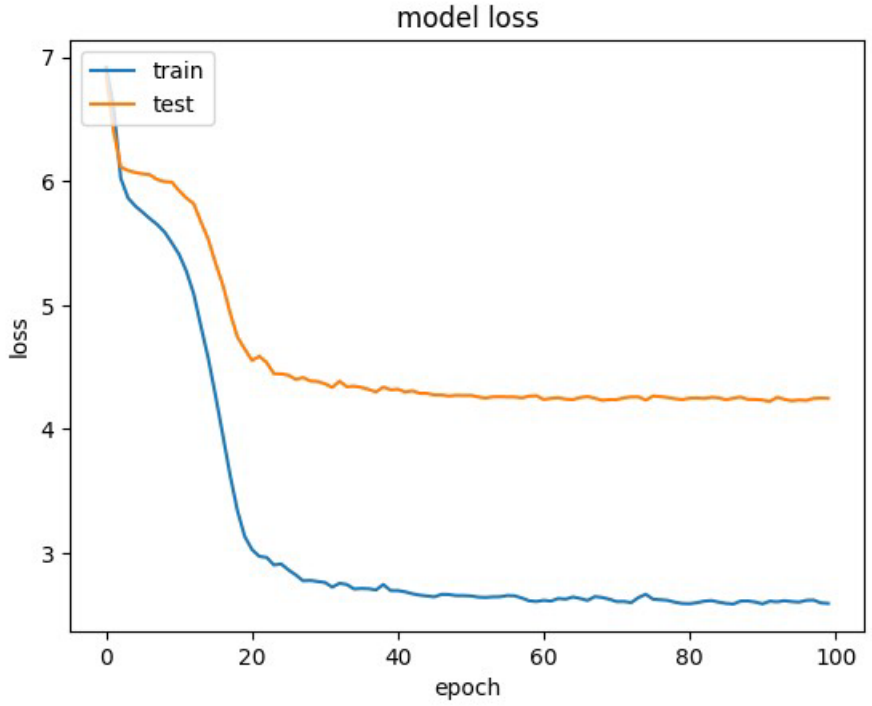

model loss
train
test
loss
epoch
0
200
400
600
800
1000
1200
1400
0
20
40
60
80
100

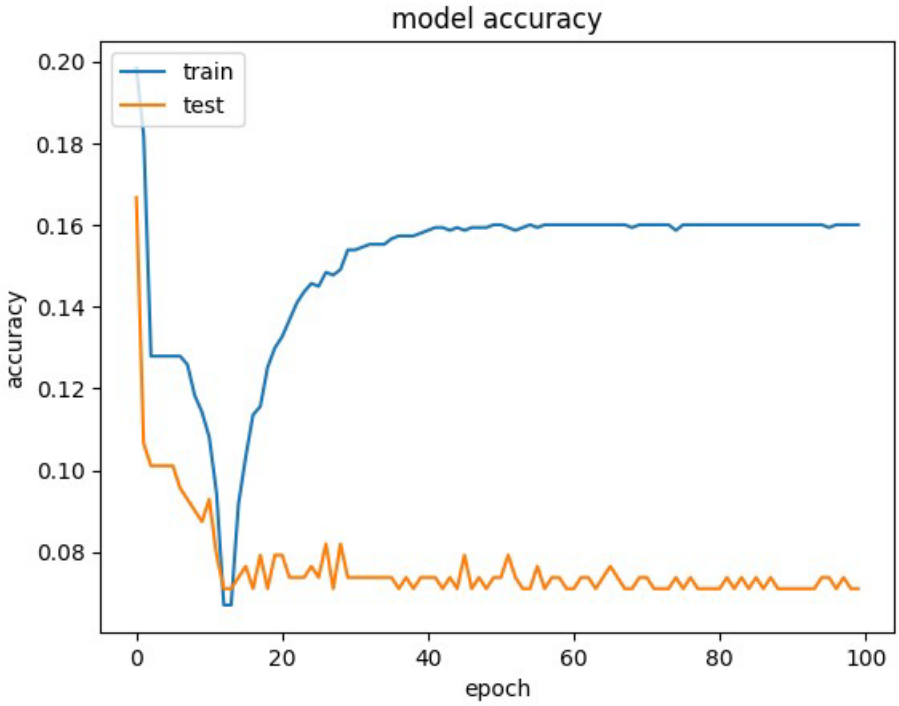

model accuracy
train
test
accuracy
epoch
0.65
0.60
0.55
0.50
0.45
0.40
0
20
40
60
80
100

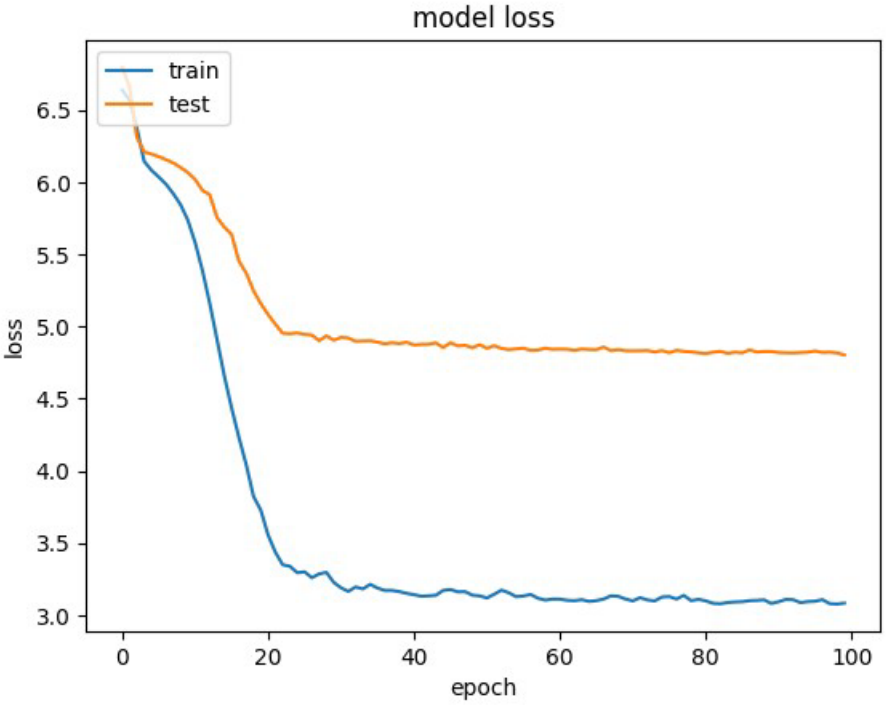

model loss
train
test
loss
epoch
1000
800
600
400
200
0
0
20
40
60
80
100

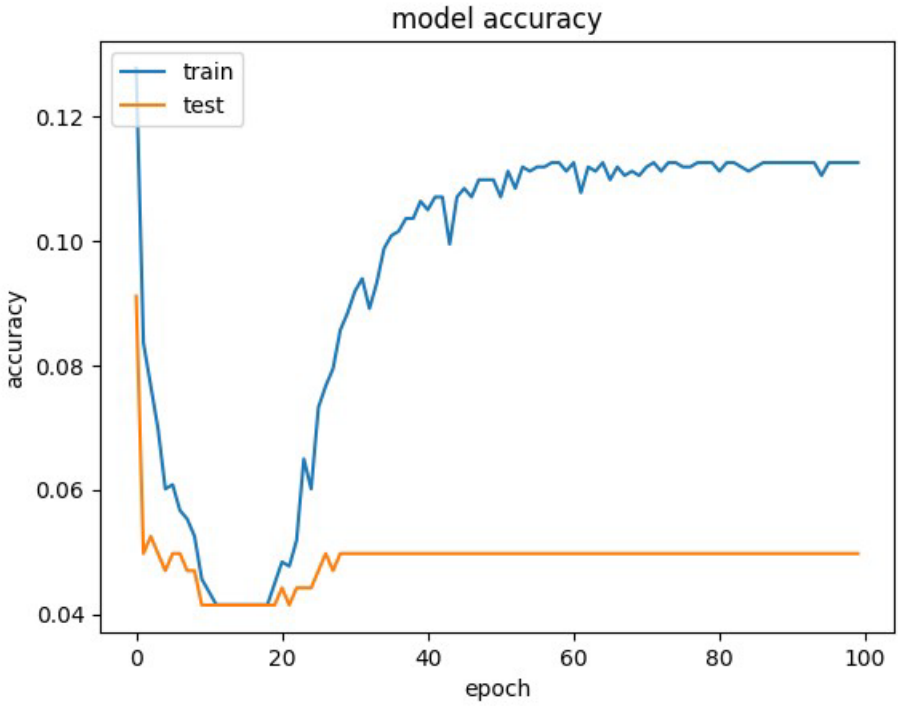
Reduce the learning rate

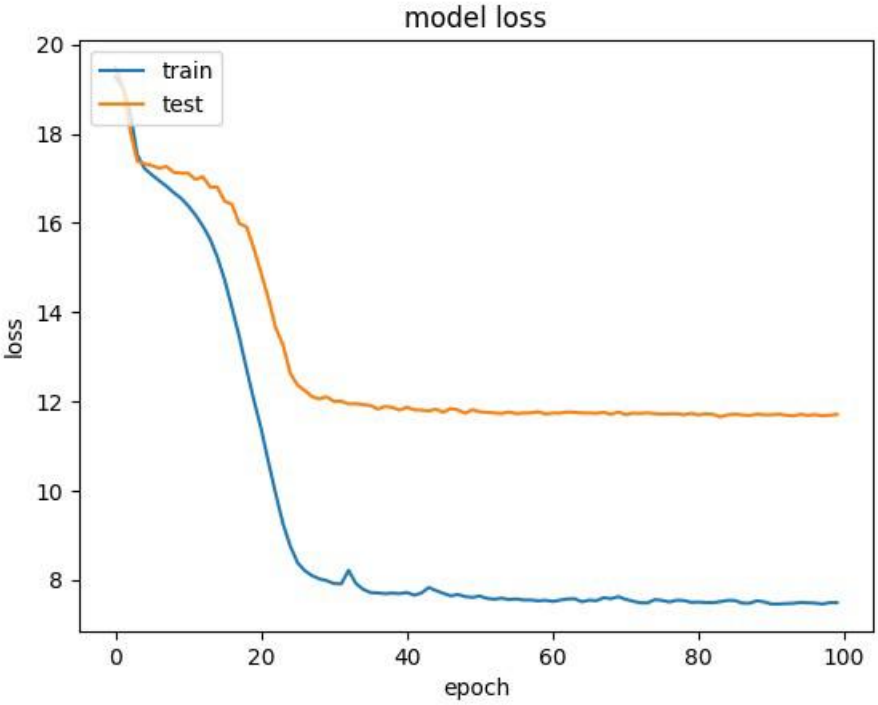


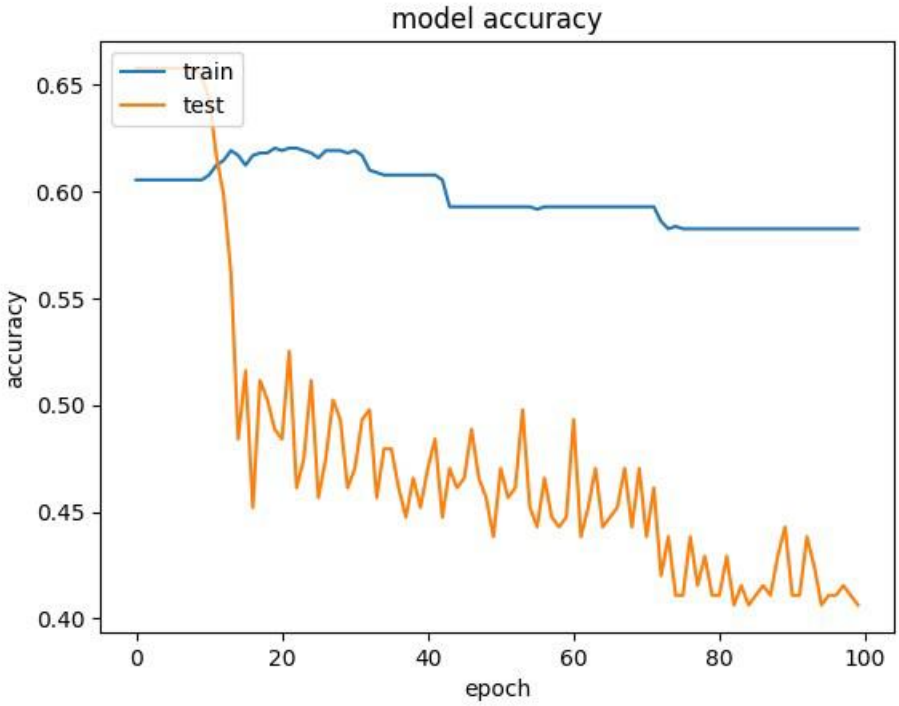


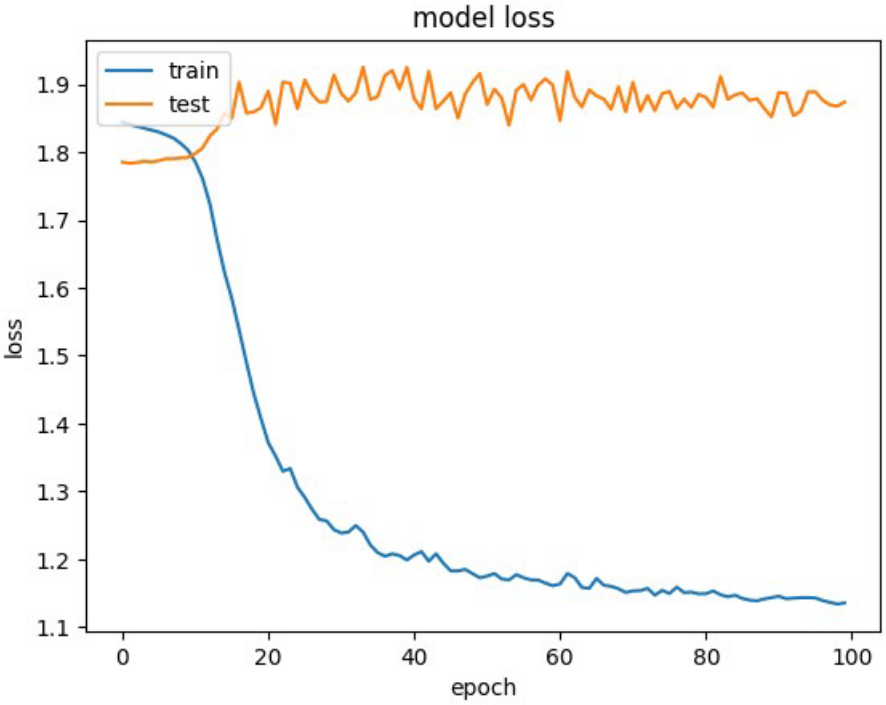

model accuracy
train
test
accuracy
epoch
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0
20
40
60
80
100


model loss
train
test
loss
epoch
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
0
20
40
60
80
100

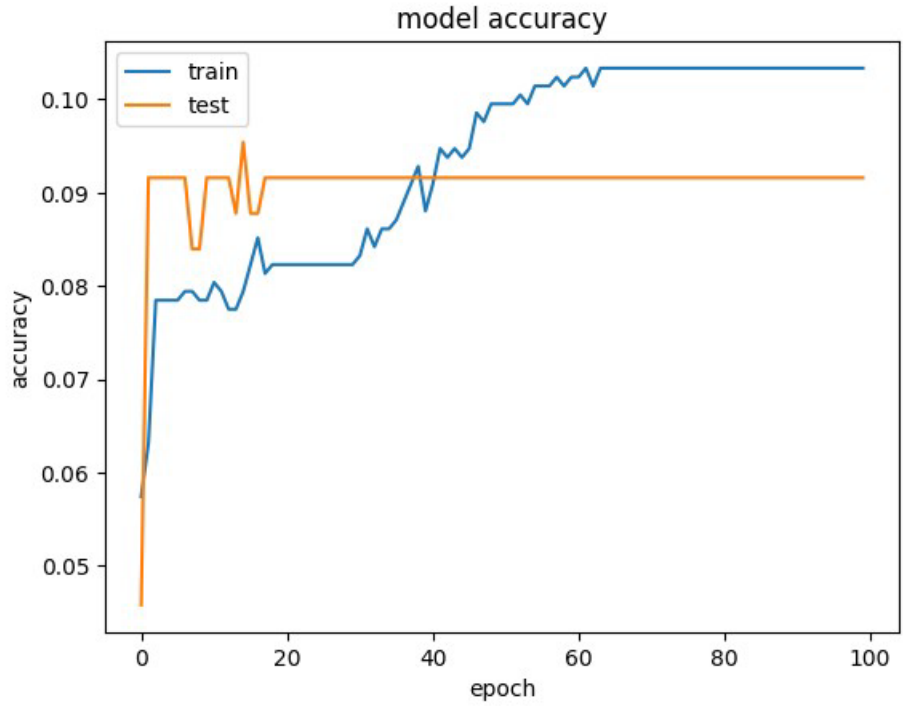

model accuracy
train
test
accuracy
epoch
0.12
0.10
0.08
0.06
0.04
0
20
40
60
80
100

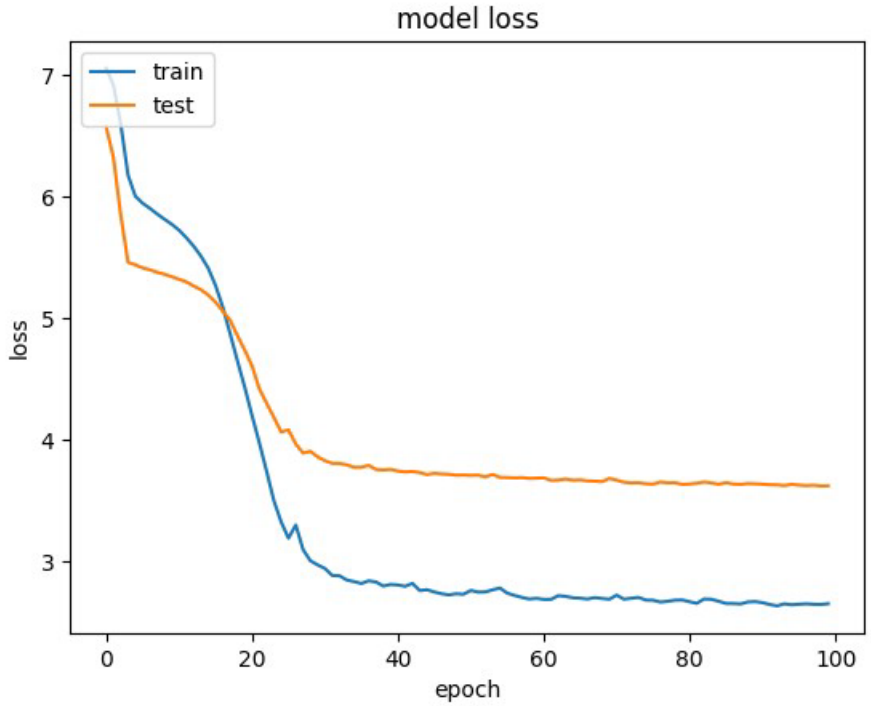

model loss
train
test
loss
epoch
20
18
16
14
12
10
8
0
20
40
60
80
100

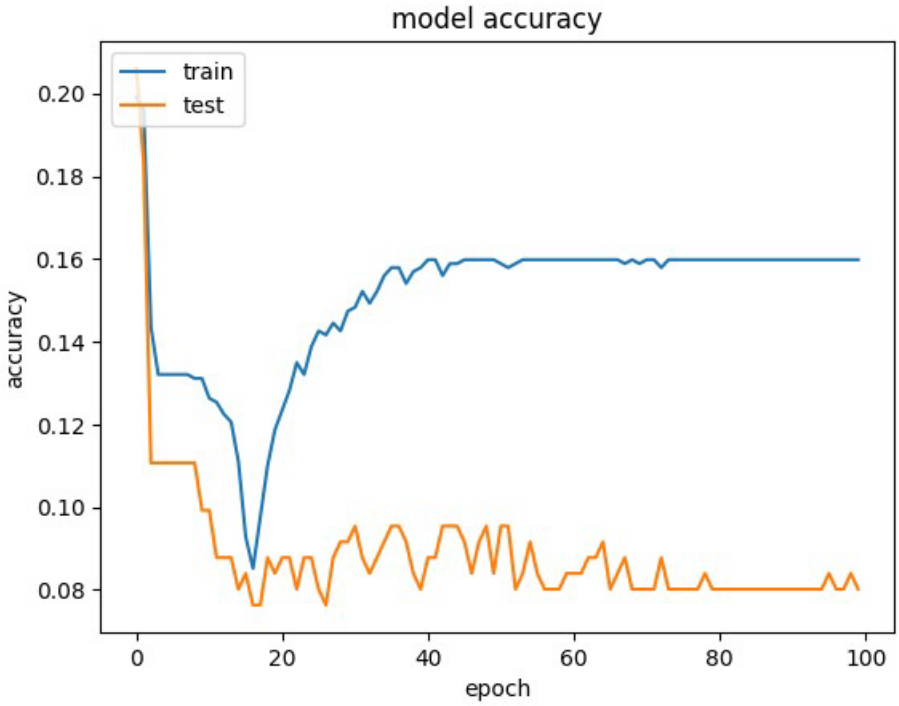

model accuracy
train
test
accuracy
epoch
0.65
0.60
0.55
0.50
0.45
0.40
0
20
40
60
80
100

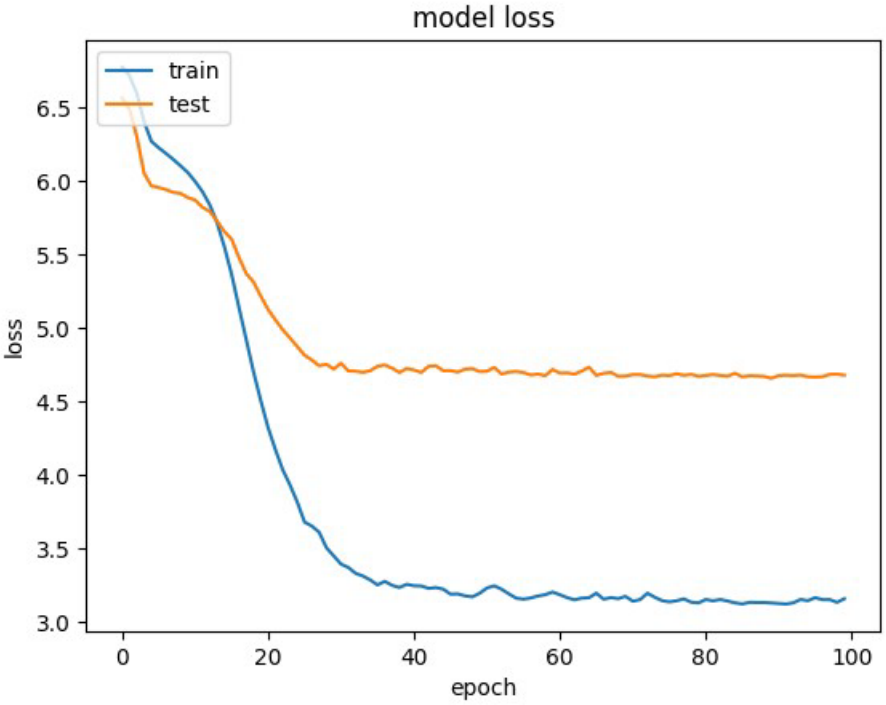

model loss
train
test
loss
epoch
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
0
20
40
60
80
100

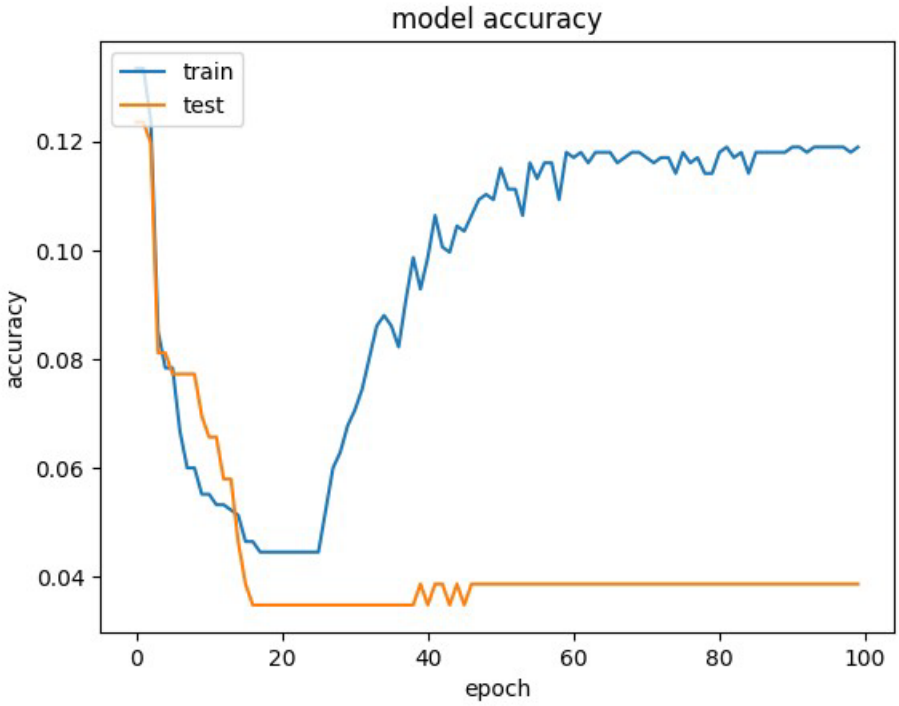
50 % data train and 50 % data test

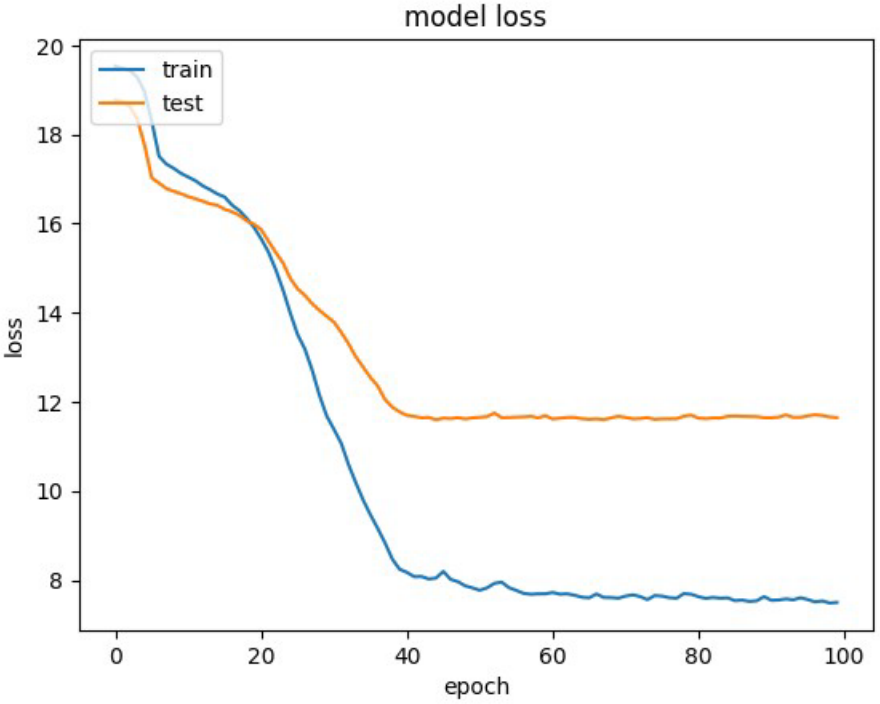


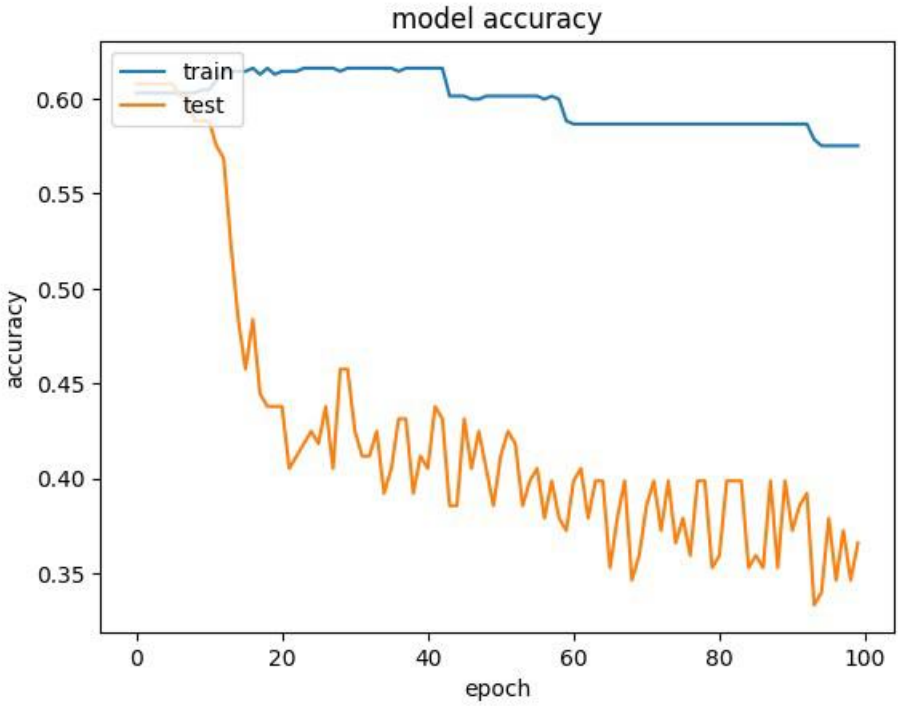


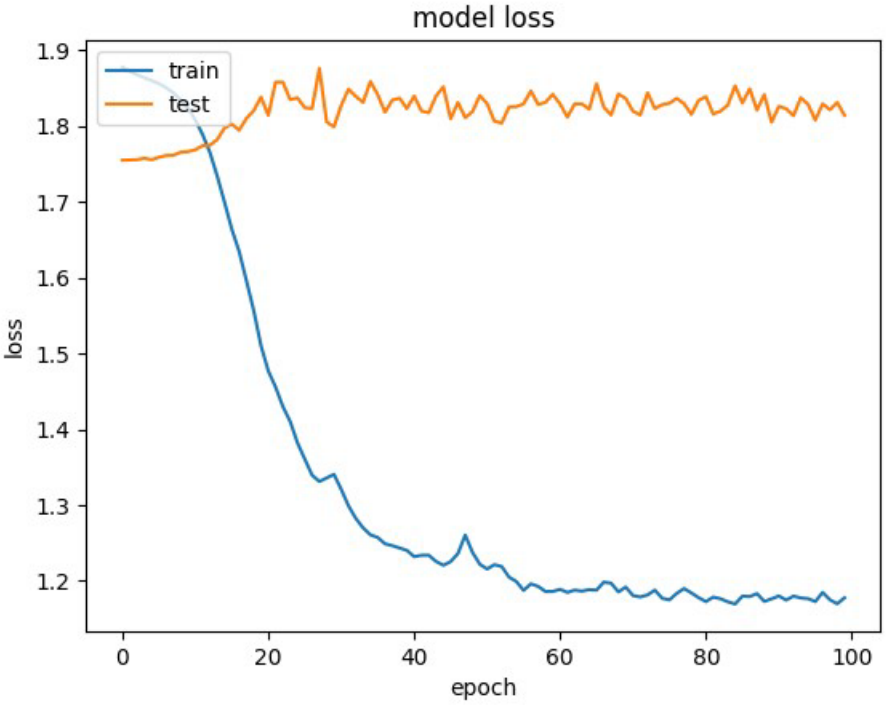

model accuracy
train
test
accuracy
epoch
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0
20
40
60
80
100


model loss
train
test
loss
epoch
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
0
20
40
60
80
100

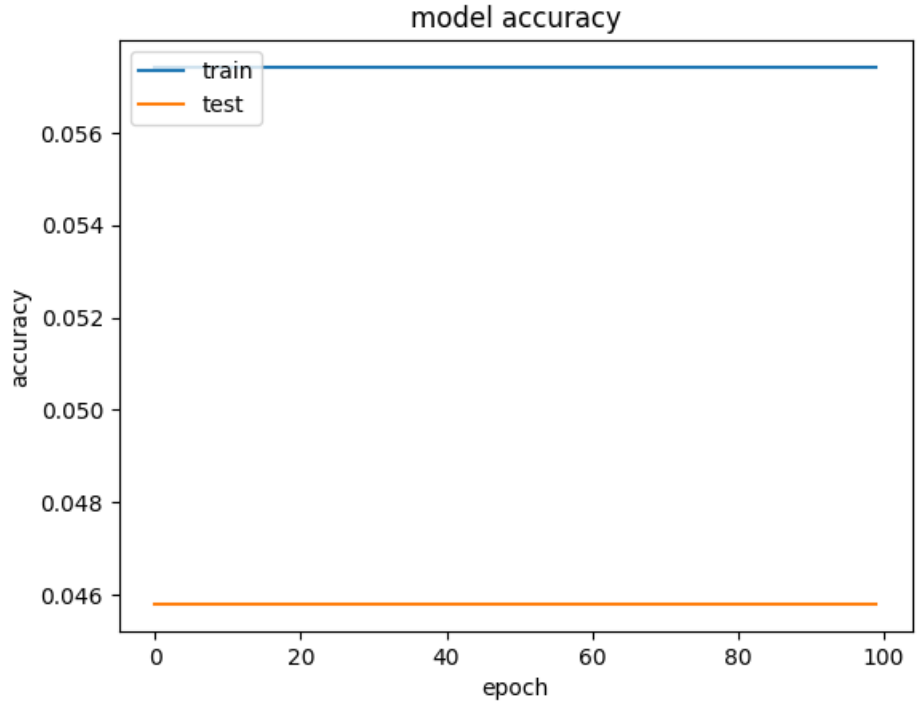

model accuracy
train
test
accuracy
0.12
0.10
0.08
0.06
0.04
0
20
40
60
80
100
epoch

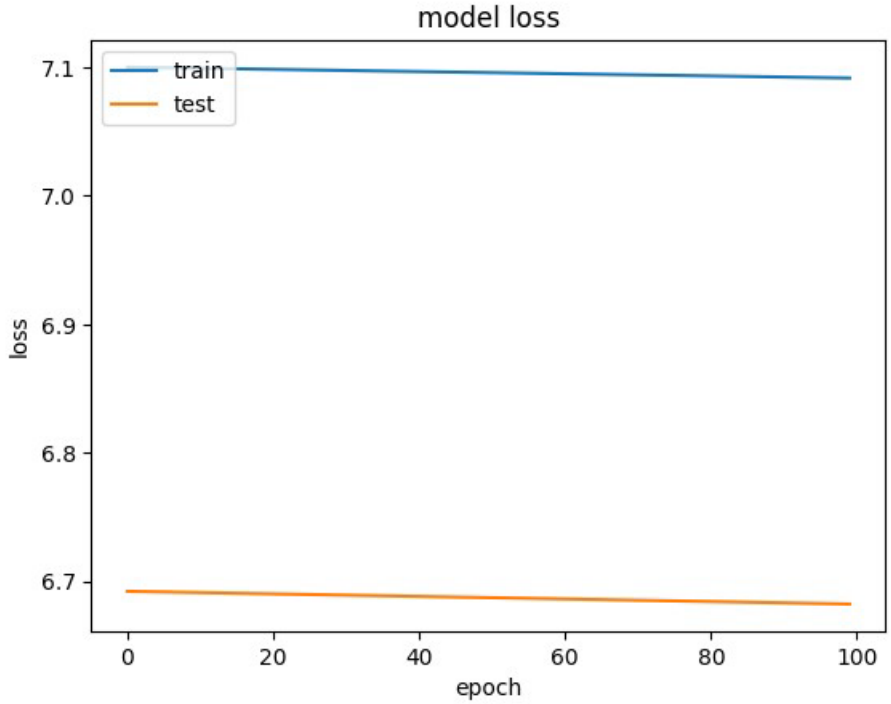

model loss
train
test
loss
20
18
16
14
12
10
8
0
20
40
60
80
100
epoch

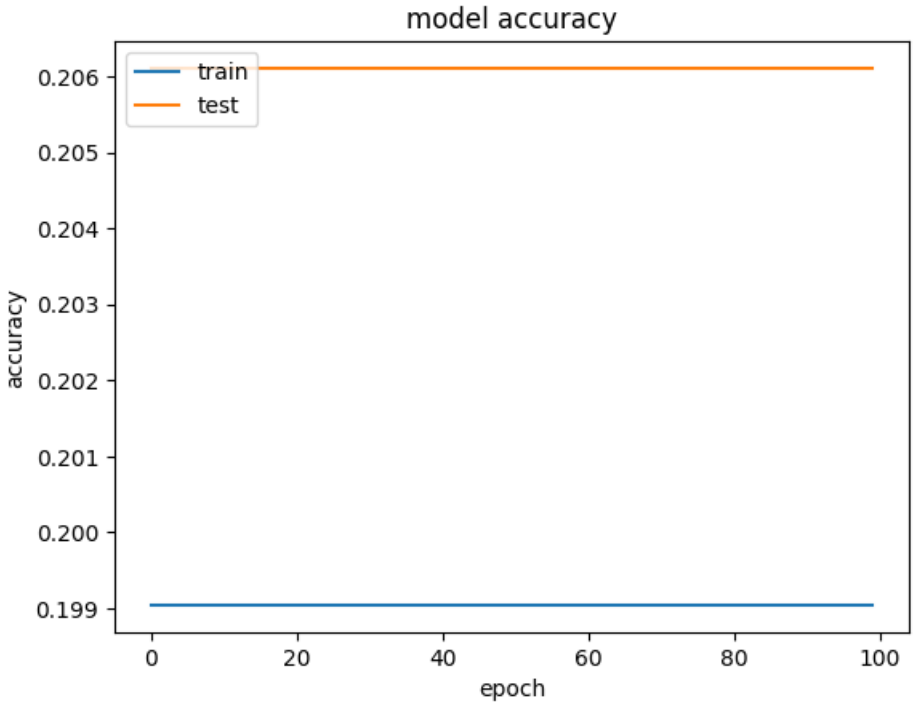

model accuracy
train
test
accuracy
epoch
0.60
0.55
0.50
0.45
0.40
0.35
0
20
40
60
80
100

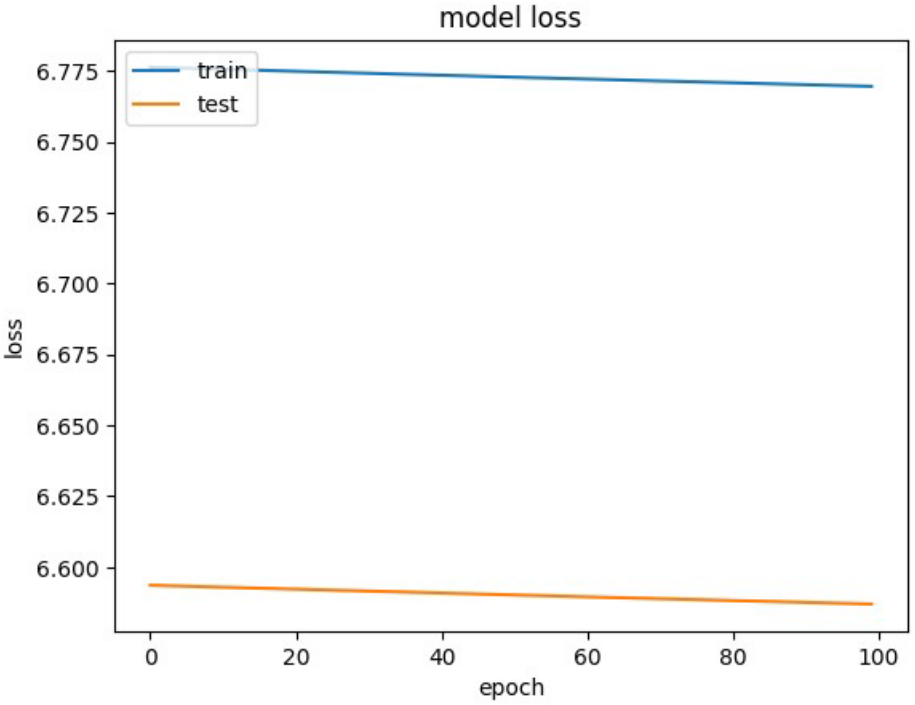

model loss
train
test
loss
epoch
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
0
20
40
60
80
100

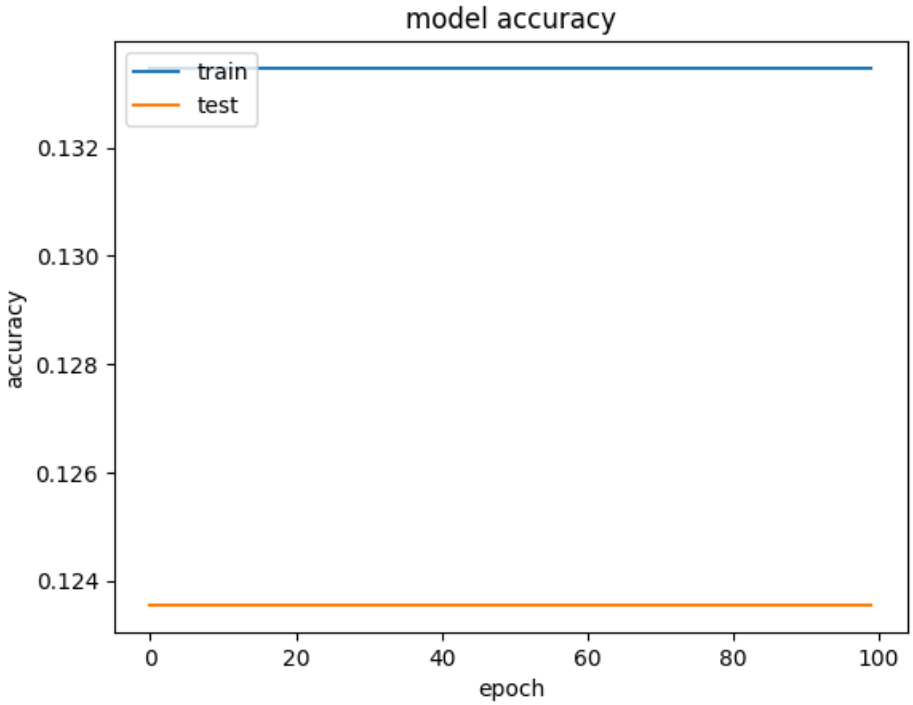
Reduce again the learning rates

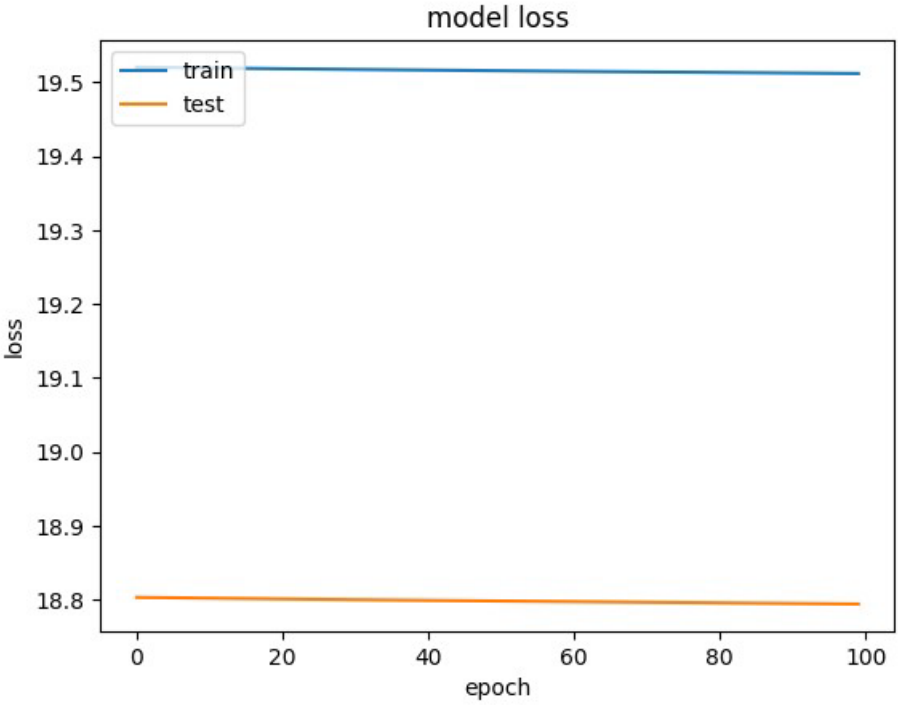


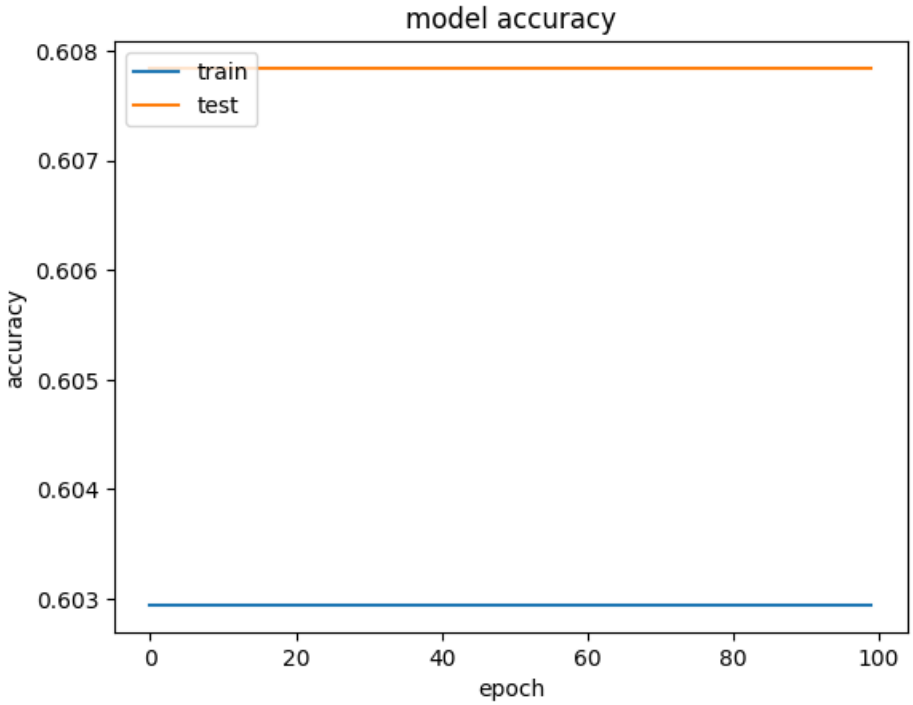


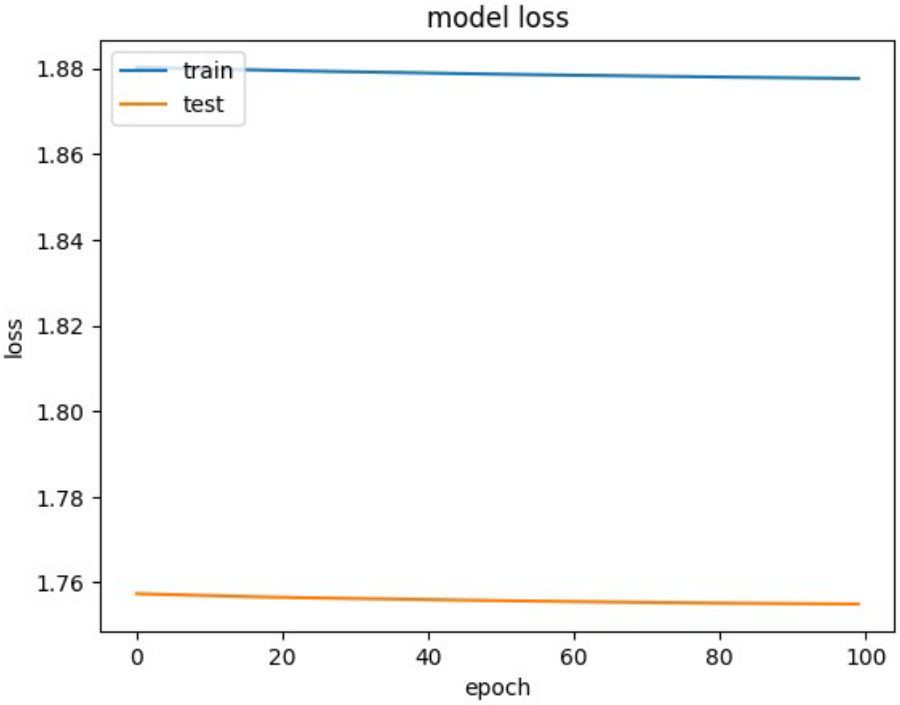

model accuracy
train
test
0.206
0.205
0.204
0.203
0.202
0.201
0.200
0.199
accuracy
0
20
40
60
80
100
epoch


model loss
train
test
6.775
6.750
6.725
6.700
6.675
6.650
6.625
6.600
loss
0
20
40
60
80
100
epoch

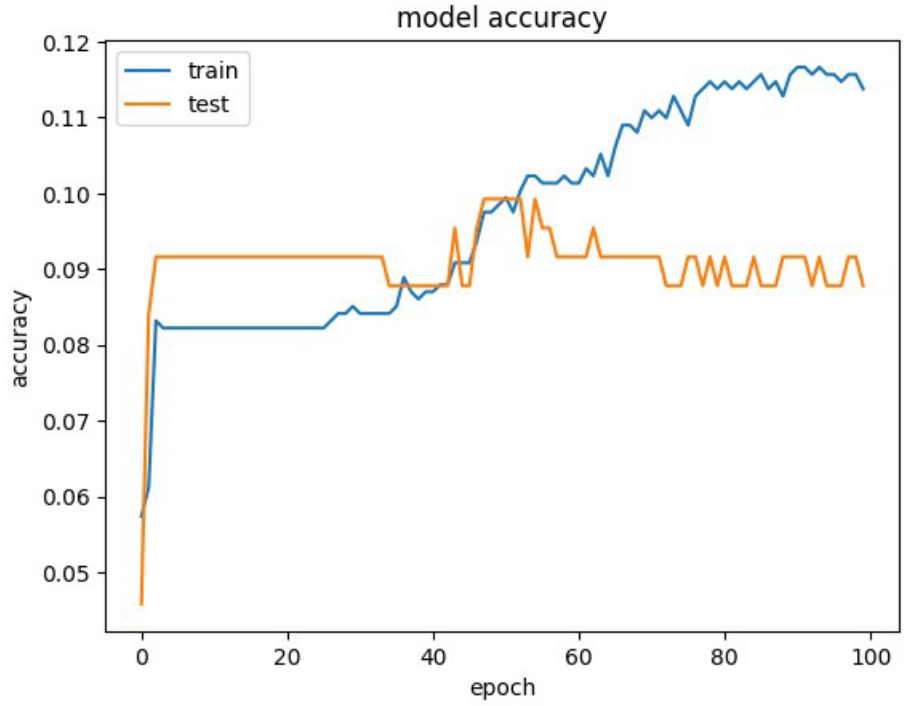

model accuracy
train
test
0.132
0.130
0.128
0.126
0.124
accuracy
0
20
40
60
80
100
epoch

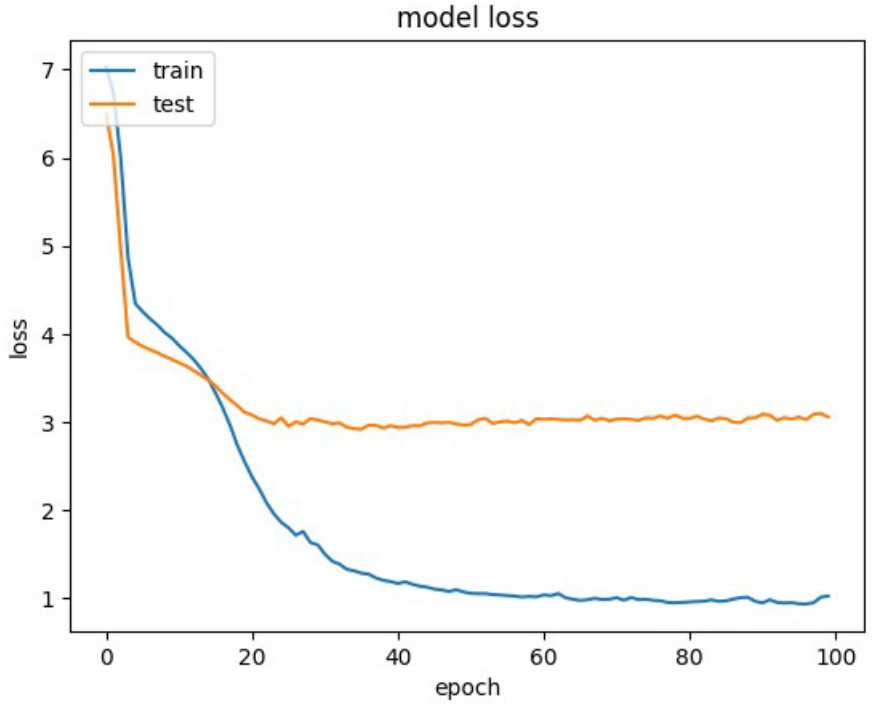

model loss
train
test
19.5
19.4
19.3
19.2
19.1
19.0
18.9
18.8
loss
0
20
40
60
80
100
epoch

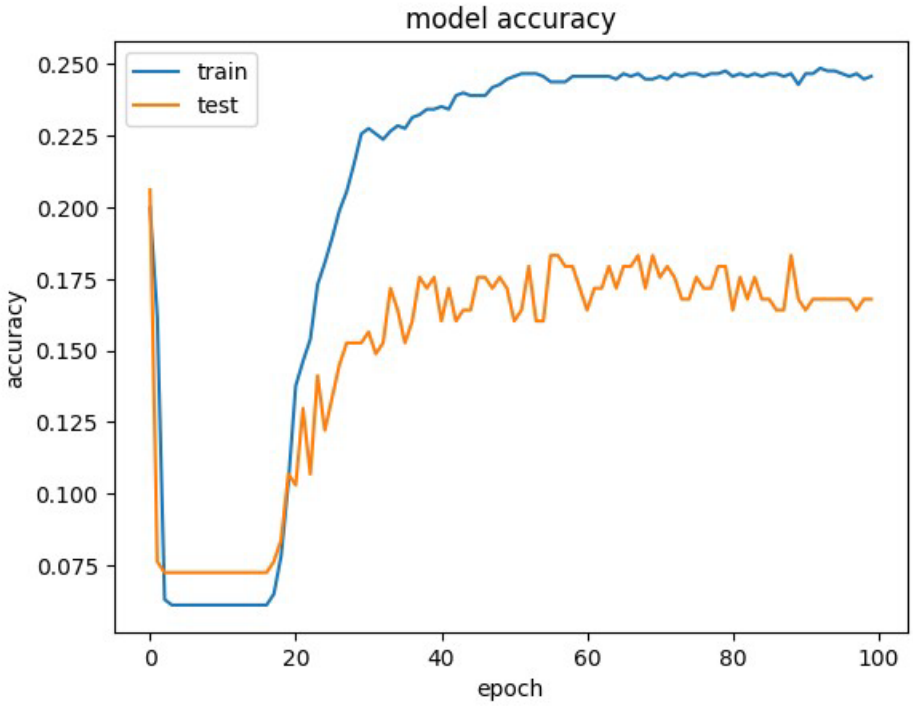

model accuracy
train
test
accuracy
0.608
0.607
0.606
0.605
0.604
0.603
0
20
40
60
80
100
epoch

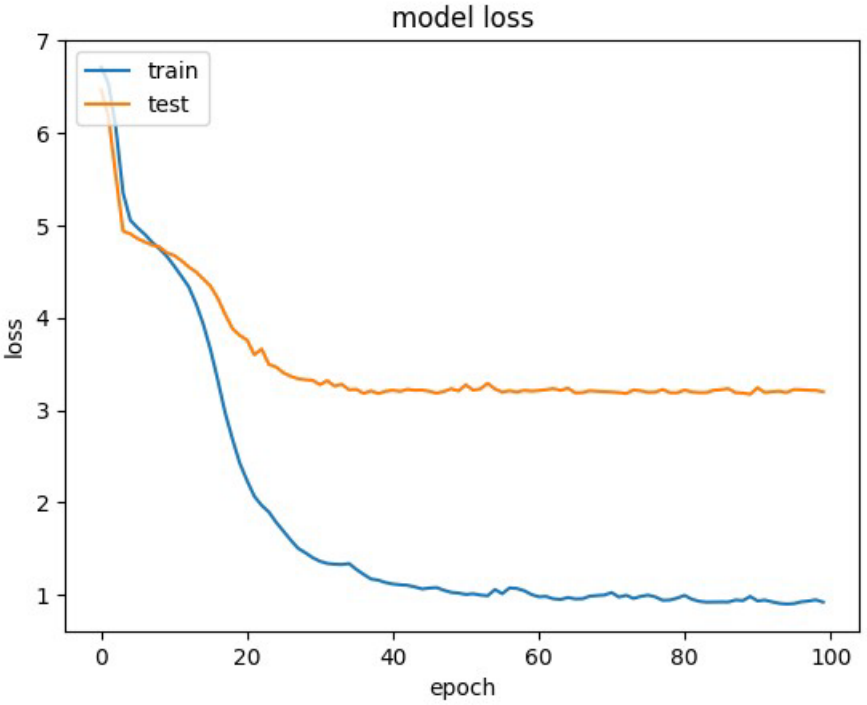

model loss
train
test
loss
1.88
1.86
1.84
1.82
1.80
1.78
1.76
0
20
40
60
80
100
epoch

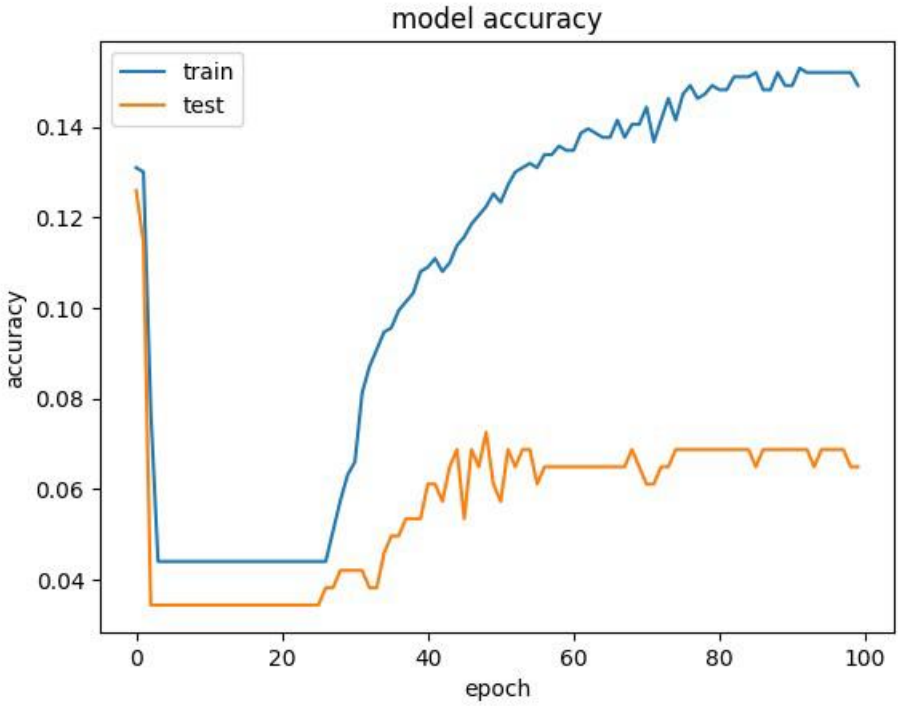
Using the df1 dataframe

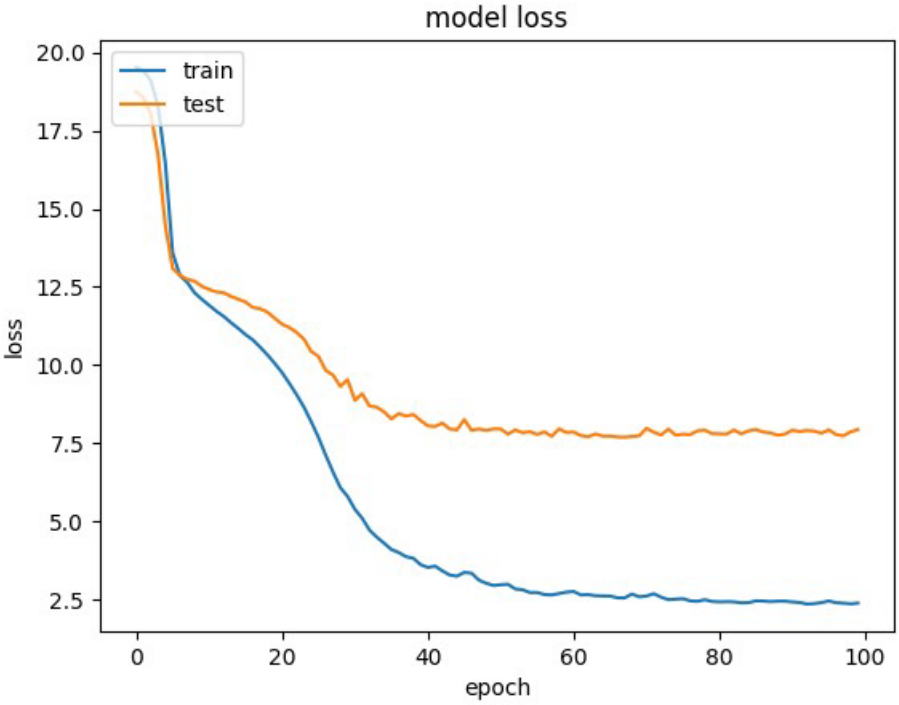


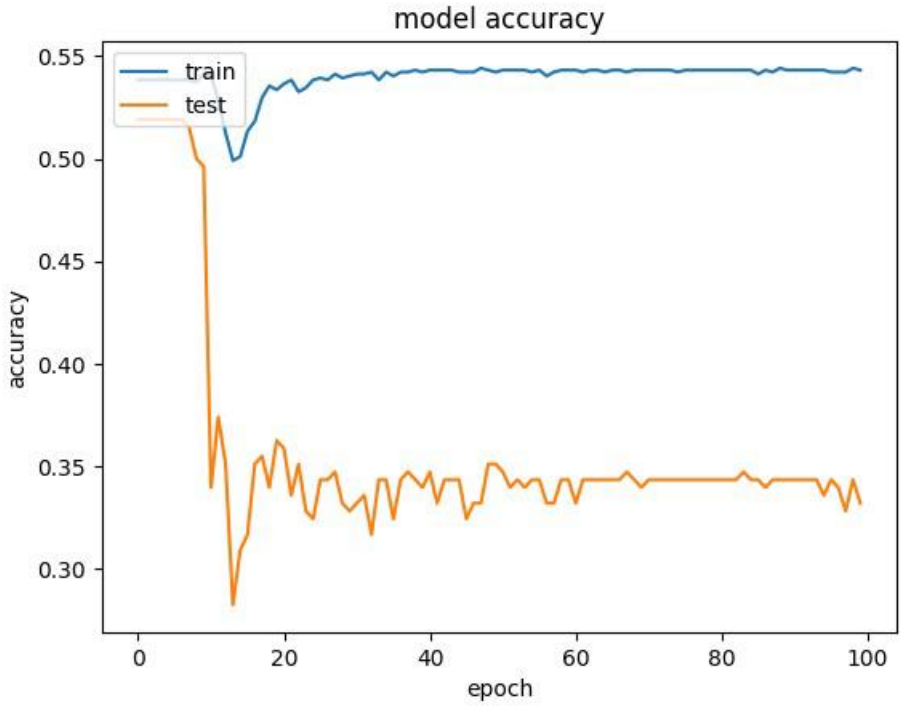


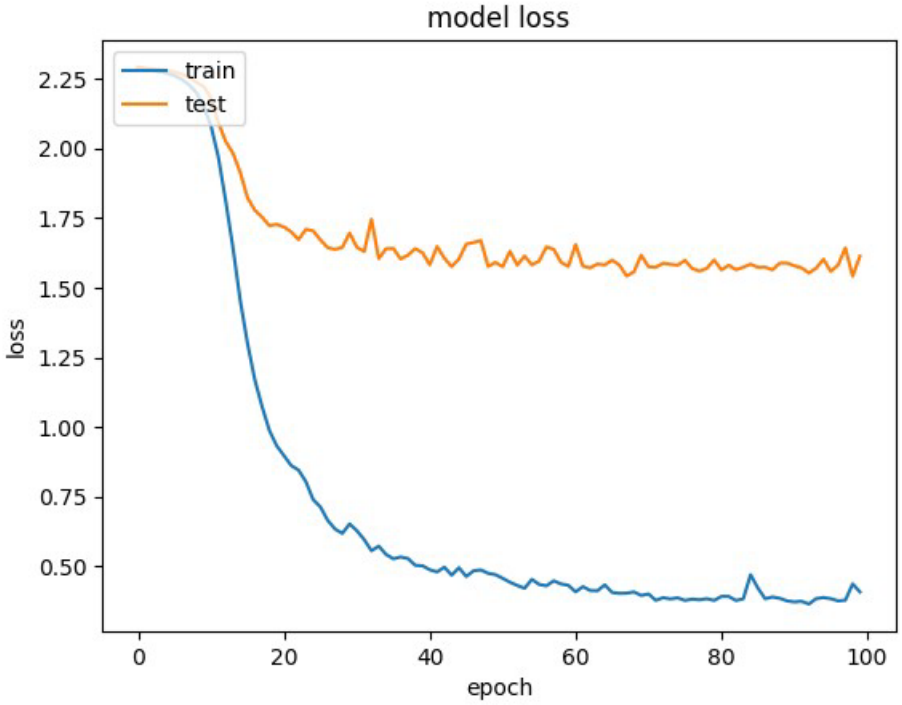

model accuracy
train
test
accuracy
epoch
0.250
0.225
0.200
0.175
0.150
0.125
0.100
0.075
0
20
40
60
80
100


model loss
train
test
loss
epoch
7
6
5
4
3
2
1
0
20
40
60
80
100

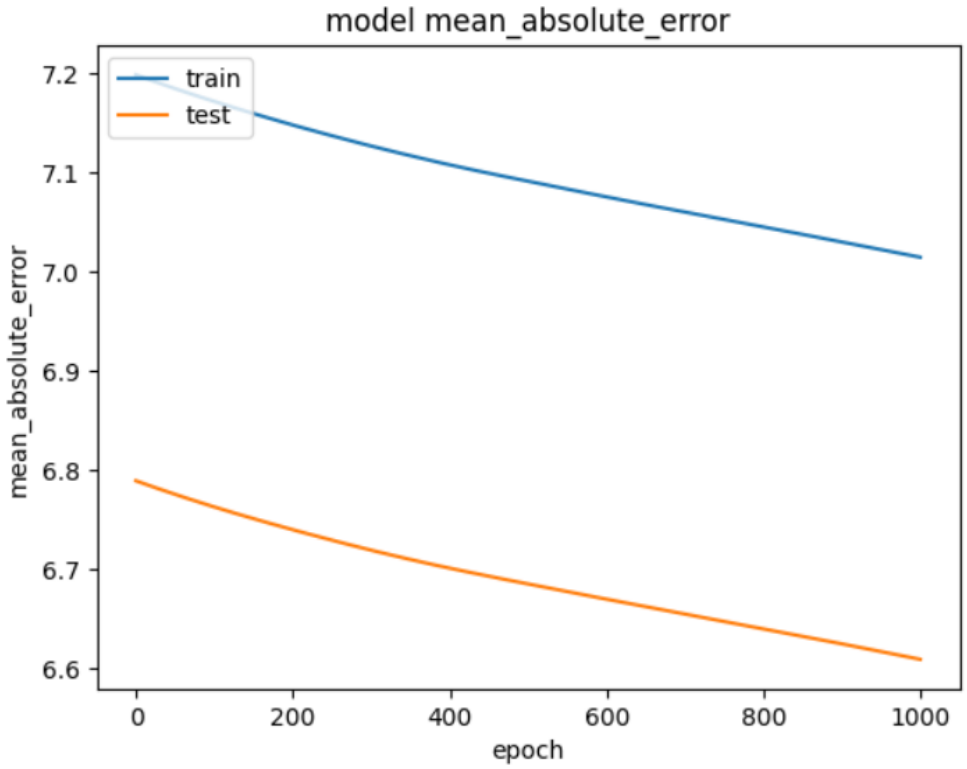

model accuracy
train
test
accuracy
0.14
0.12
0.10
0.08
0.06
0.04
0
20
40
60
80
100
epoch

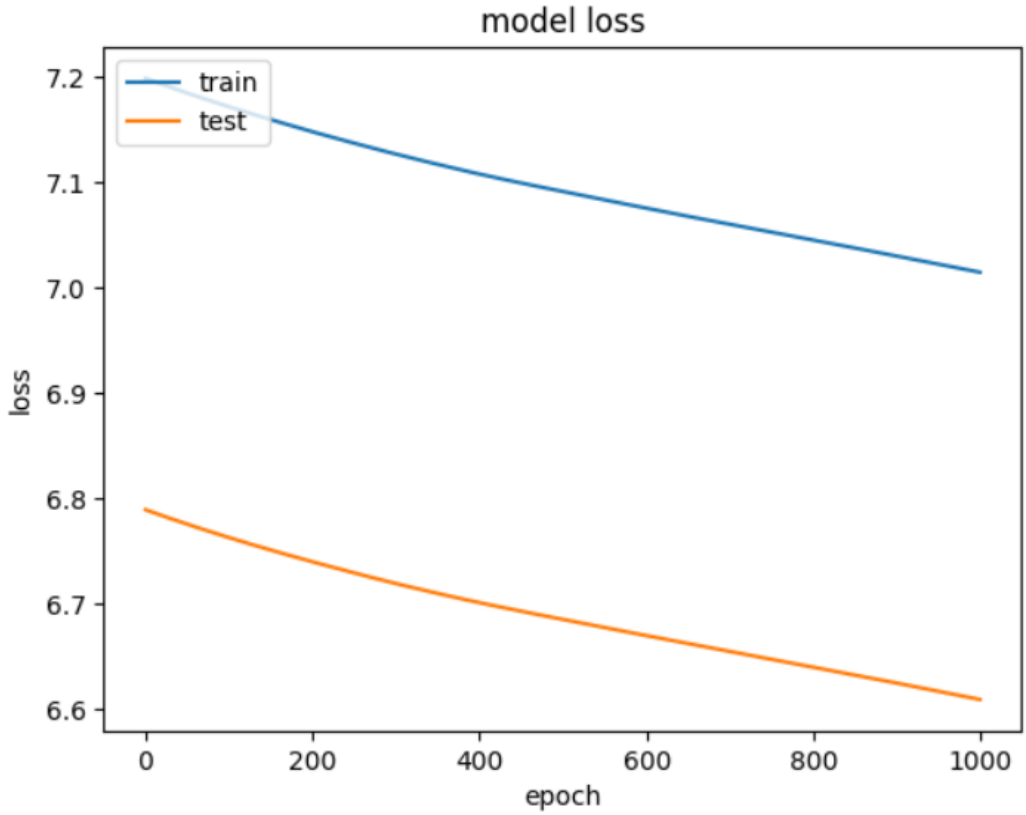

model loss
train
test
loss
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
20
40
60
80
100
epoch


model accuracy
train
test
accuracy
epoch
0.55
0.50
0.45
0.40
0.35
0.30
0
20
40
60
80
100


model loss
train
test
loss
epoch
2.25
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0
20
40
60
80
100

Model Df1 with 1000 epochs, metrics = mean absolute error, learning rate 10^{-8}





Model Df1 with 1000 epochs, metrics = mean absolute error, learning rate 10^{-6}