hypercount: 1

i-Onedir\_1\_lr\_0.001\_nodrop

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [2] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [3] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [4] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [5] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [6] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [7] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [8] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [9] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [10] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [11] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

out of patience

Finished Training

starttime = 2021-01-12 13:45:38.926833

endtime = 2021-01-12 13:55:25.606507

Last model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.252

Accuracy for Classifier : 0.42

Cut off: 1.4878

[[1999 0]

[2777 0]]

Best model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.252

Accuracy for Classifier : 0.42

Cut off: 1.4878

[[1999 0]

[2777 0]]

hypercount: 2

i-Onedir\_1\_lr\_0.0001\_nodrop

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.237.. Validation loss: 0.782..

AUC: 0.50 PR AUC: 0.53

Epoch [2] out of 80

Training loss: 1.206.. Validation loss: 0.833..

AUC: 0.50 PR AUC: 0.53

Epoch [3] out of 80

Training loss: 1.199.. Validation loss: 0.857..

AUC: 0.50 PR AUC: 0.53

Epoch [4] out of 80

Training loss: 1.198.. Validation loss: 0.867..

AUC: 0.50 PR AUC: 0.53

Epoch [5] out of 80

Training loss: 1.198.. Validation loss: 0.871..

AUC: 0.50 PR AUC: 0.53

Epoch [6] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [7] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [8] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [9] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [10] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [11] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

out of patience

Finished Training

starttime = 2021-01-12 13:55:26.095950

endtime = 2021-01-12 14:05:13.326962

Last model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.246

Accuracy for Classifier : 0.42

Cut off: 1.5258

[[1999 0]

[2777 0]]

Best model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.246

Accuracy for Classifier : 0.42

Cut off: 1.5258

[[1999 0]

[2777 0]]

hypercount: 3

i-Onedir\_1\_lr\_0.001\_drop0.2

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0.2, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.197.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [2] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [3] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [4] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [5] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [6] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [7] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [8] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [9] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [10] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [11] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

out of patience

Finished Training

starttime = 2021-01-12 14:05:13.799737

endtime = 2021-01-12 14:14:41.464663

Last model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.252

Accuracy for Classifier : 0.42

Cut off: 1.4878

[[1999 0]

[2777 0]]

Best model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.252

Accuracy for Classifier : 0.42

Cut off: 1.4878

[[1999 0]

[2777 0]]

hypercount: 4

i-Onedir\_1\_lr\_0.0001\_drop0.2

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0.2, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.176.. Validation loss: 0.765..

AUC: 0.65 PR AUC: 0.34

Epoch [2] out of 80

Training loss: 1.154.. Validation loss: 0.732..

AUC: 0.70 PR AUC: 0.37

Epoch [3] out of 80

Training loss: 1.145.. Validation loss: 0.717..

AUC: 0.70 PR AUC: 0.37

Epoch [4] out of 80

Training loss: 1.139.. Validation loss: 0.705..

AUC: 0.72 PR AUC: 0.38

Epoch [5] out of 80

Training loss: 1.136.. Validation loss: 0.698..

AUC: 0.74 PR AUC: 0.39

Epoch [6] out of 80

Training loss: 1.133.. Validation loss: 0.691..

AUC: 0.77 PR AUC: 0.40

Epoch [7] out of 80

Training loss: 1.132.. Validation loss: 0.682..

AUC: 0.77 PR AUC: 0.40

Epoch [8] out of 80

Training loss: 1.131.. Validation loss: 0.678..

AUC: 0.81 PR AUC: 0.41

Epoch [9] out of 80

Training loss: 1.130.. Validation loss: 0.673..

AUC: 0.81 PR AUC: 0.41

Epoch [10] out of 80

Training loss: 1.129.. Validation loss: 0.665..

AUC: 0.82 PR AUC: 0.42

Epoch [11] out of 80

Training loss: 1.128.. Validation loss: 0.660..

AUC: 0.84 PR AUC: 0.42

Epoch [12] out of 80

Training loss: 1.127.. Validation loss: 0.654..

AUC: 0.83 PR AUC: 0.42

Epoch [13] out of 80

Training loss: 1.126.. Validation loss: 0.650..

AUC: 0.84 PR AUC: 0.41

Epoch [14] out of 80

Training loss: 1.125.. Validation loss: 0.645..

AUC: 0.83 PR AUC: 0.40

Epoch [15] out of 80

Training loss: 1.126.. Validation loss: 0.641..

AUC: 0.85 PR AUC: 0.42

Epoch [16] out of 80

Training loss: 1.125.. Validation loss: 0.633..

AUC: 0.84 PR AUC: 0.41

Epoch [17] out of 80

Training loss: 1.124.. Validation loss: 0.630..

AUC: 0.83 PR AUC: 0.40

Epoch [18] out of 80

Training loss: 1.124.. Validation loss: 0.624..

AUC: 0.85 PR AUC: 0.42

Epoch [19] out of 80

Training loss: 1.122.. Validation loss: 0.621..

AUC: 0.85 PR AUC: 0.42

Epoch [20] out of 80

Training loss: 1.123.. Validation loss: 0.623..

AUC: 0.87 PR AUC: 0.43

Epoch [21] out of 80

Training loss: 1.123.. Validation loss: 0.619..

AUC: 0.86 PR AUC: 0.42

Epoch [22] out of 80

Training loss: 1.121.. Validation loss: 0.612..

AUC: 0.84 PR AUC: 0.41

Epoch [23] out of 80

Training loss: 1.122.. Validation loss: 0.613..

AUC: 0.86 PR AUC: 0.42

Epoch [24] out of 80

Training loss: 1.120.. Validation loss: 0.605..

AUC: 0.86 PR AUC: 0.42

Epoch [25] out of 80

Training loss: 1.120.. Validation loss: 0.606..

AUC: 0.86 PR AUC: 0.42

Epoch [26] out of 80

Training loss: 1.119.. Validation loss: 0.603..

AUC: 0.86 PR AUC: 0.42

Epoch [27] out of 80

Training loss: 1.120.. Validation loss: 0.601..

AUC: 0.86 PR AUC: 0.42

Epoch [28] out of 80

Training loss: 1.119.. Validation loss: 0.603..

AUC: 0.87 PR AUC: 0.43

Epoch [29] out of 80

Training loss: 1.119.. Validation loss: 0.602..

AUC: 0.88 PR AUC: 0.44

Epoch [30] out of 80

Training loss: 1.117.. Validation loss: 0.598..

AUC: 0.86 PR AUC: 0.43

Epoch [31] out of 80

Training loss: 1.118.. Validation loss: 0.602..

AUC: 0.87 PR AUC: 0.43

Epoch [32] out of 80

Training loss: 1.118.. Validation loss: 0.597..

AUC: 0.85 PR AUC: 0.42

Epoch [33] out of 80

Training loss: 1.118.. Validation loss: 0.596..

AUC: 0.86 PR AUC: 0.42

Epoch [34] out of 80

Training loss: 1.117.. Validation loss: 0.599..

AUC: 0.89 PR AUC: 0.45

Epoch [35] out of 80

Training loss: 1.116.. Validation loss: 0.594..

AUC: 0.86 PR AUC: 0.42

Epoch [36] out of 80

Training loss: 1.116.. Validation loss: 0.593..

AUC: 0.86 PR AUC: 0.42

Epoch [37] out of 80

Training loss: 1.117.. Validation loss: 0.597..

AUC: 0.89 PR AUC: 0.45

Epoch [38] out of 80

Training loss: 1.116.. Validation loss: 0.590..

AUC: 0.85 PR AUC: 0.42

Epoch [39] out of 80

Training loss: 1.115.. Validation loss: 0.589..

AUC: 0.87 PR AUC: 0.44

Epoch [40] out of 80

Training loss: 1.115.. Validation loss: 0.590..

AUC: 0.86 PR AUC: 0.43

Epoch [41] out of 80

Training loss: 1.116.. Validation loss: 0.592..

AUC: 0.87 PR AUC: 0.43

Epoch [42] out of 80

Training loss: 1.116.. Validation loss: 0.588..

AUC: 0.86 PR AUC: 0.43

Epoch [43] out of 80

Training loss: 1.115.. Validation loss: 0.592..

AUC: 0.87 PR AUC: 0.43

Epoch [44] out of 80

Training loss: 1.116.. Validation loss: 0.598..

AUC: 0.89 PR AUC: 0.45

Epoch [45] out of 80

Training loss: 1.115.. Validation loss: 0.597..

AUC: 0.87 PR AUC: 0.44

Epoch [46] out of 80

Training loss: 1.116.. Validation loss: 0.594..

AUC: 0.85 PR AUC: 0.42

Epoch [47] out of 80

Training loss: 1.116.. Validation loss: 0.598..

AUC: 0.87 PR AUC: 0.44

Epoch [48] out of 80

Training loss: 1.115.. Validation loss: 0.597..

AUC: 0.86 PR AUC: 0.43

Epoch [49] out of 80

Training loss: 1.114.. Validation loss: 0.597..

AUC: 0.86 PR AUC: 0.43

Epoch [50] out of 80

Training loss: 1.114.. Validation loss: 0.603..

AUC: 0.86 PR AUC: 0.44

Epoch [51] out of 80

Training loss: 1.115.. Validation loss: 0.605..

AUC: 0.86 PR AUC: 0.44

Epoch [52] out of 80

Training loss: 1.114.. Validation loss: 0.607..

AUC: 0.86 PR AUC: 0.44

Epoch [53] out of 80

Training loss: 1.114.. Validation loss: 0.609..

AUC: 0.85 PR AUC: 0.43

Epoch [54] out of 80

Training loss: 1.113.. Validation loss: 0.608..

AUC: 0.85 PR AUC: 0.44

Epoch [55] out of 80

Training loss: 1.113.. Validation loss: 0.615..

AUC: 0.86 PR AUC: 0.44

Epoch [56] out of 80

Training loss: 1.113.. Validation loss: 0.614..

AUC: 0.87 PR AUC: 0.45

Epoch [57] out of 80

Training loss: 1.113.. Validation loss: 0.613..

AUC: 0.85 PR AUC: 0.44

Epoch [58] out of 80

Training loss: 1.113.. Validation loss: 0.616..

AUC: 0.84 PR AUC: 0.43

Epoch [59] out of 80

Training loss: 1.113.. Validation loss: 0.617..

AUC: 0.84 PR AUC: 0.44

Epoch [60] out of 80

Training loss: 1.113.. Validation loss: 0.625..

AUC: 0.85 PR AUC: 0.44

Epoch [61] out of 80

Training loss: 1.113.. Validation loss: 0.622..

AUC: 0.85 PR AUC: 0.44

Epoch [62] out of 80

Training loss: 1.113.. Validation loss: 0.626..

AUC: 0.85 PR AUC: 0.44

Epoch [63] out of 80

Training loss: 1.112.. Validation loss: 0.627..

AUC: 0.84 PR AUC: 0.43

Epoch [64] out of 80

Training loss: 1.113.. Validation loss: 0.627..

AUC: 0.79 PR AUC: 0.41

Epoch [65] out of 80

Training loss: 1.112.. Validation loss: 0.627..

AUC: 0.82 PR AUC: 0.43

Epoch [66] out of 80

Training loss: 1.112.. Validation loss: 0.635..

AUC: 0.85 PR AUC: 0.44

Epoch [67] out of 80

Training loss: 1.112.. Validation loss: 0.632..

AUC: 0.83 PR AUC: 0.43

Epoch [68] out of 80

Training loss: 1.112.. Validation loss: 0.635..

AUC: 0.82 PR AUC: 0.42

Epoch [69] out of 80

Training loss: 1.113.. Validation loss: 0.637..

AUC: 0.80 PR AUC: 0.42

Epoch [70] out of 80

Training loss: 1.112.. Validation loss: 0.645..

AUC: 0.83 PR AUC: 0.43

Epoch [71] out of 80

Training loss: 1.111.. Validation loss: 0.644..

AUC: 0.83 PR AUC: 0.43

Epoch [72] out of 80

Training loss: 1.111.. Validation loss: 0.648..

AUC: 0.82 PR AUC: 0.43

Epoch [73] out of 80

Training loss: 1.112.. Validation loss: 0.651..

AUC: 0.82 PR AUC: 0.43

Epoch [74] out of 80

Training loss: 1.112.. Validation loss: 0.651..

AUC: 0.81 PR AUC: 0.43

Epoch [75] out of 80

Training loss: 1.111.. Validation loss: 0.657..

AUC: 0.80 PR AUC: 0.42

Epoch [76] out of 80

Training loss: 1.111.. Validation loss: 0.655..

AUC: 0.79 PR AUC: 0.42

Epoch [77] out of 80

Training loss: 1.111.. Validation loss: 0.659..

AUC: 0.77 PR AUC: 0.41

Epoch [78] out of 80

Training loss: 1.111.. Validation loss: 0.662..

AUC: 0.79 PR AUC: 0.42

Epoch [79] out of 80

Training loss: 1.112.. Validation loss: 0.668..

AUC: 0.80 PR AUC: 0.42

Epoch [80] out of 80

Training loss: 1.111.. Validation loss: 0.666..

AUC: 0.78 PR AUC: 0.42

Finished Training

starttime = 2021-01-12 14:14:41.942074

endtime = 2021-01-12 15:27:12.925188

Last model

Area Under ROC Curve: 0.64

Area Under PR Curve(AP): 0.73

Brier score : 0.254

Accuracy for Classifier : 0.65

Cut off: 0.3319

[[1281 718]

[ 942 1835]]

Best model

Area Under ROC Curve: 0.64

Area Under PR Curve(AP): 0.73

Brier score : 0.253

Accuracy for Classifier : 0.66

Cut off: 0.3319

[[1297 702]

[ 943 1834]]

hypercount: 5

i-Onedir\_2\_lr\_0.001\_nodrop

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, num\_layers=2, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.205.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [2] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [3] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [4] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [5] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [6] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [7] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [8] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [9] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [10] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

Epoch [11] out of 80

Training loss: 1.195.. Validation loss: 0.820..

AUC: 0.50 PR AUC: 0.53

out of patience

Finished Training

starttime = 2021-01-12 15:27:13.479257

endtime = 2021-01-12 15:45:26.289242

Last model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.252

Accuracy for Classifier : 0.42

Cut off: 1.4878

[[1999 0]

[2777 0]]

Best model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.252

Accuracy for Classifier : 0.42

Cut off: 1.4878

[[1999 0]

[2777 0]]

hypercount: 6

i-Onedir\_2\_lr\_0.0001\_nodrop

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, num\_layers=2, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.179.. Validation loss: 0.845..

AUC: 0.68 PR AUC: 0.22

Epoch [2] out of 80

Training loss: 1.140.. Validation loss: 0.793..

AUC: 0.71 PR AUC: 0.24

Epoch [3] out of 80

Training loss: 1.120.. Validation loss: 0.752..

AUC: 0.73 PR AUC: 0.27

Epoch [4] out of 80

Training loss: 1.108.. Validation loss: 0.721..

AUC: 0.75 PR AUC: 0.28

Epoch [5] out of 80

Training loss: 1.100.. Validation loss: 0.698..

AUC: 0.77 PR AUC: 0.28

Epoch [6] out of 80

Training loss: 1.094.. Validation loss: 0.690..

AUC: 0.65 PR AUC: 0.26

Epoch [7] out of 80

Training loss: 1.089.. Validation loss: 0.688..

AUC: 0.66 PR AUC: 0.26

Epoch [8] out of 80

Training loss: 1.086.. Validation loss: 0.690..

AUC: 0.66 PR AUC: 0.26

Epoch [9] out of 80

Training loss: 1.083.. Validation loss: 0.694..

AUC: 0.66 PR AUC: 0.26

Epoch [10] out of 80

Training loss: 1.080.. Validation loss: 0.702..

AUC: 0.67 PR AUC: 0.26

Epoch [11] out of 80

Training loss: 1.077.. Validation loss: 0.711..

AUC: 0.67 PR AUC: 0.26

Epoch [12] out of 80

Training loss: 1.075.. Validation loss: 0.720..

AUC: 0.67 PR AUC: 0.27

Epoch [13] out of 80

Training loss: 1.072.. Validation loss: 0.732..

AUC: 0.68 PR AUC: 0.27

Epoch [14] out of 80

Training loss: 1.070.. Validation loss: 0.740..

AUC: 0.68 PR AUC: 0.27

Epoch [15] out of 80

Training loss: 1.068.. Validation loss: 0.745..

AUC: 0.68 PR AUC: 0.28

Epoch [16] out of 80

Training loss: 1.067.. Validation loss: 0.749..

AUC: 0.68 PR AUC: 0.28

Epoch [17] out of 80

Training loss: 1.065.. Validation loss: 0.757..

AUC: 0.68 PR AUC: 0.28

Epoch [18] out of 80

Training loss: 1.063.. Validation loss: 0.760..

AUC: 0.69 PR AUC: 0.29

Epoch [19] out of 80

Training loss: 1.062.. Validation loss: 0.767..

AUC: 0.68 PR AUC: 0.29

Epoch [20] out of 80

Training loss: 1.061.. Validation loss: 0.771..

AUC: 0.68 PR AUC: 0.29

Epoch [21] out of 80

Training loss: 1.060.. Validation loss: 0.771..

AUC: 0.69 PR AUC: 0.29

Epoch [22] out of 80

Training loss: 1.059.. Validation loss: 0.778..

AUC: 0.68 PR AUC: 0.29

Epoch [23] out of 80

Training loss: 1.058.. Validation loss: 0.783..

AUC: 0.68 PR AUC: 0.29

Epoch [24] out of 80

Training loss: 1.057.. Validation loss: 0.787..

AUC: 0.68 PR AUC: 0.30

Epoch [25] out of 80

Training loss: 1.056.. Validation loss: 0.794..

AUC: 0.68 PR AUC: 0.30

Epoch [26] out of 80

Training loss: 1.055.. Validation loss: 0.800..

AUC: 0.67 PR AUC: 0.30

Epoch [27] out of 80

Training loss: 1.054.. Validation loss: 0.804..

AUC: 0.67 PR AUC: 0.30

Epoch [28] out of 80

Training loss: 1.053.. Validation loss: 0.810..

AUC: 0.67 PR AUC: 0.30

Epoch [29] out of 80

Training loss: 1.053.. Validation loss: 0.813..

AUC: 0.67 PR AUC: 0.30

Epoch [30] out of 80

Training loss: 1.052.. Validation loss: 0.817..

AUC: 0.66 PR AUC: 0.30

Epoch [31] out of 80

Training loss: 1.051.. Validation loss: 0.821..

AUC: 0.66 PR AUC: 0.30

Epoch [32] out of 80

Training loss: 1.051.. Validation loss: 0.825..

AUC: 0.66 PR AUC: 0.30

Epoch [33] out of 80

Training loss: 1.050.. Validation loss: 0.829..

AUC: 0.65 PR AUC: 0.31

Epoch [34] out of 80

Training loss: 1.050.. Validation loss: 0.834..

AUC: 0.65 PR AUC: 0.31

Epoch [35] out of 80

Training loss: 1.050.. Validation loss: 0.837..

AUC: 0.65 PR AUC: 0.31

Epoch [36] out of 80

Training loss: 1.049.. Validation loss: 0.845..

AUC: 0.64 PR AUC: 0.31

Epoch [37] out of 80

Training loss: 1.049.. Validation loss: 0.850..

AUC: 0.64 PR AUC: 0.31

Epoch [38] out of 80

Training loss: 1.048.. Validation loss: 0.854..

AUC: 0.64 PR AUC: 0.31

Epoch [39] out of 80

Training loss: 1.048.. Validation loss: 0.861..

AUC: 0.63 PR AUC: 0.31

Epoch [40] out of 80

Training loss: 1.047.. Validation loss: 0.869..

AUC: 0.63 PR AUC: 0.30

Epoch [41] out of 80

Training loss: 1.047.. Validation loss: 0.880..

AUC: 0.62 PR AUC: 0.30

Epoch [42] out of 80

Training loss: 1.047.. Validation loss: 0.892..

AUC: 0.61 PR AUC: 0.30

Epoch [43] out of 80

Training loss: 1.046.. Validation loss: 0.901..

AUC: 0.61 PR AUC: 0.30

Epoch [44] out of 80

Training loss: 1.046.. Validation loss: 0.912..

AUC: 0.60 PR AUC: 0.30

Epoch [45] out of 80

Training loss: 1.045.. Validation loss: 0.919..

AUC: 0.60 PR AUC: 0.30

Epoch [46] out of 80

Training loss: 1.045.. Validation loss: 0.929..

AUC: 0.59 PR AUC: 0.30

Epoch [47] out of 80

Training loss: 1.045.. Validation loss: 0.940..

AUC: 0.59 PR AUC: 0.30

Epoch [48] out of 80

Training loss: 1.044.. Validation loss: 0.945..

AUC: 0.59 PR AUC: 0.30

Epoch [49] out of 80

Training loss: 1.044.. Validation loss: 0.953..

AUC: 0.58 PR AUC: 0.29

Epoch [50] out of 80

Training loss: 1.044.. Validation loss: 0.960..

AUC: 0.58 PR AUC: 0.29

Epoch [51] out of 80

Training loss: 1.043.. Validation loss: 0.972..

AUC: 0.57 PR AUC: 0.29

Epoch [52] out of 80

Training loss: 1.043.. Validation loss: 0.981..

AUC: 0.57 PR AUC: 0.29

Epoch [53] out of 80

Training loss: 1.043.. Validation loss: 0.992..

AUC: 0.56 PR AUC: 0.29

Epoch [54] out of 80

Training loss: 1.042.. Validation loss: 1.004..

AUC: 0.56 PR AUC: 0.29

Epoch [55] out of 80

Training loss: 1.042.. Validation loss: 1.017..

AUC: 0.55 PR AUC: 0.28

Epoch [56] out of 80

Training loss: 1.042.. Validation loss: 1.026..

AUC: 0.55 PR AUC: 0.28

Epoch [57] out of 80

Training loss: 1.042.. Validation loss: 1.032..

AUC: 0.54 PR AUC: 0.28

Epoch [58] out of 80

Training loss: 1.041.. Validation loss: 1.042..

AUC: 0.54 PR AUC: 0.28

Epoch [59] out of 80

Training loss: 1.041.. Validation loss: 1.053..

AUC: 0.54 PR AUC: 0.28

Epoch [60] out of 80

Training loss: 1.041.. Validation loss: 1.059..

AUC: 0.53 PR AUC: 0.28

Epoch [61] out of 80

Training loss: 1.041.. Validation loss: 1.067..

AUC: 0.53 PR AUC: 0.28

Epoch [62] out of 80

Training loss: 1.040.. Validation loss: 1.075..

AUC: 0.53 PR AUC: 0.28

Epoch [63] out of 80

Training loss: 1.040.. Validation loss: 1.085..

AUC: 0.53 PR AUC: 0.27

Epoch [64] out of 80

Training loss: 1.040.. Validation loss: 1.092..

AUC: 0.52 PR AUC: 0.27

Epoch [65] out of 80

Training loss: 1.040.. Validation loss: 1.099..

AUC: 0.52 PR AUC: 0.27

Epoch [66] out of 80

Training loss: 1.040.. Validation loss: 1.106..

AUC: 0.52 PR AUC: 0.27

Epoch [67] out of 80

Training loss: 1.040.. Validation loss: 1.113..

AUC: 0.51 PR AUC: 0.27

Epoch [68] out of 80

Training loss: 1.039.. Validation loss: 1.121..

AUC: 0.51 PR AUC: 0.27

Epoch [69] out of 80

Training loss: 1.039.. Validation loss: 1.132..

AUC: 0.51 PR AUC: 0.27

Epoch [70] out of 80

Training loss: 1.039.. Validation loss: 1.139..

AUC: 0.50 PR AUC: 0.27

Epoch [71] out of 80

Training loss: 1.039.. Validation loss: 1.148..

AUC: 0.50 PR AUC: 0.26

Epoch [72] out of 80

Training loss: 1.039.. Validation loss: 1.158..

AUC: 0.50 PR AUC: 0.26

Epoch [73] out of 80

Training loss: 1.038.. Validation loss: 1.166..

AUC: 0.49 PR AUC: 0.26

Epoch [74] out of 80

Training loss: 1.038.. Validation loss: 1.175..

AUC: 0.49 PR AUC: 0.26

Epoch [75] out of 80

Training loss: 1.038.. Validation loss: 1.183..

AUC: 0.49 PR AUC: 0.26

Epoch [76] out of 80

Training loss: 1.038.. Validation loss: 1.192..

AUC: 0.49 PR AUC: 0.26

Epoch [77] out of 80

Training loss: 1.038.. Validation loss: 1.198..

AUC: 0.48 PR AUC: 0.26

Epoch [78] out of 80

Training loss: 1.038.. Validation loss: 1.206..

AUC: 0.48 PR AUC: 0.25

Epoch [79] out of 80

Training loss: 1.038.. Validation loss: 1.214..

AUC: 0.48 PR AUC: 0.25

Epoch [80] out of 80

Training loss: 1.038.. Validation loss: 1.220..

AUC: 0.48 PR AUC: 0.25

Finished Training

starttime = 2021-01-12 15:45:26.998422

endtime = 2021-01-12 18:01:51.488574

Last model

Area Under ROC Curve: 0.54

Area Under PR Curve(AP): 0.66

Brier score : 0.274

Accuracy for Classifier : 0.49

Cut off: 0.7527

[[1972 27]

[2389 388]]

Best model

Area Under ROC Curve: 0.54

Area Under PR Curve(AP): 0.66

Brier score : 0.274

Accuracy for Classifier : 0.49

Cut off: 0.7527

[[1972 27]

[2389 388]]

hypercount: 7

i-Onedir\_2\_lr\_0.001\_drop0.2

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, num\_layers=2, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0.2, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.141.. Validation loss: 0.709..

AUC: 0.65 PR AUC: 0.26

Epoch [2] out of 80

Training loss: 1.119.. Validation loss: 0.691..

AUC: 0.68 PR AUC: 0.26

Epoch [3] out of 80

Training loss: 1.113.. Validation loss: 0.700..

AUC: 0.70 PR AUC: 0.28

Epoch [4] out of 80

Training loss: 1.110.. Validation loss: 0.718..

AUC: 0.70 PR AUC: 0.29

Epoch [5] out of 80

Training loss: 1.107.. Validation loss: 0.737..

AUC: 0.61 PR AUC: 0.25

Epoch [6] out of 80

Training loss: 1.105.. Validation loss: 0.722..

AUC: 0.65 PR AUC: 0.29

Epoch [7] out of 80

Training loss: 1.103.. Validation loss: 0.746..

AUC: 0.64 PR AUC: 0.29

Epoch [8] out of 80

Training loss: 1.102.. Validation loss: 0.741..

AUC: 0.61 PR AUC: 0.27

Epoch [9] out of 80

Training loss: 1.101.. Validation loss: 0.736..

AUC: 0.60 PR AUC: 0.28

Epoch [10] out of 80

Training loss: 1.100.. Validation loss: 0.739..

AUC: 0.63 PR AUC: 0.30

Epoch [11] out of 80

Training loss: 1.097.. Validation loss: 0.758..

AUC: 0.65 PR AUC: 0.31

Epoch [12] out of 80

Training loss: 1.097.. Validation loss: 0.778..

AUC: 0.65 PR AUC: 0.29

Epoch [13] out of 80

Training loss: 1.097.. Validation loss: 0.745..

AUC: 0.63 PR AUC: 0.30

Epoch [14] out of 80

Training loss: 1.097.. Validation loss: 0.764..

AUC: 0.61 PR AUC: 0.29

Epoch [15] out of 80

Training loss: 1.096.. Validation loss: 0.763..

AUC: 0.62 PR AUC: 0.30

Epoch [16] out of 80

Training loss: 1.095.. Validation loss: 0.771..

AUC: 0.62 PR AUC: 0.30

Epoch [17] out of 80

Training loss: 1.096.. Validation loss: 0.747..

AUC: 0.62 PR AUC: 0.30

Epoch [18] out of 80

Training loss: 1.095.. Validation loss: 0.807..

AUC: 0.68 PR AUC: 0.31

Epoch [19] out of 80

Training loss: 1.096.. Validation loss: 0.760..

AUC: 0.62 PR AUC: 0.31

Epoch [20] out of 80

Training loss: 1.093.. Validation loss: 0.785..

AUC: 0.64 PR AUC: 0.32

Epoch [21] out of 80

Training loss: 1.093.. Validation loss: 0.816..

AUC: 0.62 PR AUC: 0.31

Epoch [22] out of 80

Training loss: 1.094.. Validation loss: 0.789..

AUC: 0.57 PR AUC: 0.30

Epoch [23] out of 80

Training loss: 1.095.. Validation loss: 0.783..

AUC: 0.60 PR AUC: 0.31

Epoch [24] out of 80

Training loss: 1.093.. Validation loss: 0.779..

AUC: 0.70 PR AUC: 0.32

Epoch [25] out of 80

Training loss: 1.092.. Validation loss: 0.824..

AUC: 0.61 PR AUC: 0.31

Epoch [26] out of 80

Training loss: 1.093.. Validation loss: 0.812..

AUC: 0.63 PR AUC: 0.32

Epoch [27] out of 80

Training loss: 1.093.. Validation loss: 0.819..

AUC: 0.59 PR AUC: 0.31

Epoch [28] out of 80

Training loss: 1.093.. Validation loss: 0.859..

AUC: 0.66 PR AUC: 0.33

Epoch [29] out of 80

Training loss: 1.092.. Validation loss: 0.861..

AUC: 0.59 PR AUC: 0.29

Epoch [30] out of 80

Training loss: 1.093.. Validation loss: 0.868..

AUC: 0.62 PR AUC: 0.31

Epoch [31] out of 80

Training loss: 1.092.. Validation loss: 0.877..

AUC: 0.63 PR AUC: 0.31

Epoch [32] out of 80

Training loss: 1.093.. Validation loss: 0.864..

AUC: 0.58 PR AUC: 0.31

Epoch [33] out of 80

Training loss: 1.092.. Validation loss: 0.861..

AUC: 0.54 PR AUC: 0.27

Epoch [34] out of 80

Training loss: 1.092.. Validation loss: 0.851..

AUC: 0.59 PR AUC: 0.31

Epoch [35] out of 80

Training loss: 1.091.. Validation loss: 0.864..

AUC: 0.64 PR AUC: 0.32

Epoch [36] out of 80

Training loss: 1.093.. Validation loss: 0.873..

AUC: 0.56 PR AUC: 0.31

Epoch [37] out of 80

Training loss: 1.092.. Validation loss: 0.867..

AUC: 0.60 PR AUC: 0.32

Epoch [38] out of 80

Training loss: 1.090.. Validation loss: 0.858..

AUC: 0.57 PR AUC: 0.30

Epoch [39] out of 80

Training loss: 1.091.. Validation loss: 0.900..

AUC: 0.57 PR AUC: 0.31

Epoch [40] out of 80

Training loss: 1.091.. Validation loss: 0.875..

AUC: 0.59 PR AUC: 0.31

Epoch [41] out of 80

Training loss: 1.091.. Validation loss: 0.846..

AUC: 0.59 PR AUC: 0.31

Epoch [42] out of 80

Training loss: 1.090.. Validation loss: 0.837..

AUC: 0.53 PR AUC: 0.28

Epoch [43] out of 80

Training loss: 1.092.. Validation loss: 0.848..

AUC: 0.60 PR AUC: 0.31

Epoch [44] out of 80

Training loss: 1.091.. Validation loss: 0.900..

AUC: 0.57 PR AUC: 0.32

Epoch [45] out of 80

Training loss: 1.090.. Validation loss: 0.875..

AUC: 0.62 PR AUC: 0.33

Epoch [46] out of 80

Training loss: 1.089.. Validation loss: 0.881..

AUC: 0.59 PR AUC: 0.31

Epoch [47] out of 80

Training loss: 1.092.. Validation loss: 0.878..

AUC: 0.55 PR AUC: 0.28

Epoch [48] out of 80

Training loss: 1.090.. Validation loss: 0.836..

AUC: 0.53 PR AUC: 0.29

Epoch [49] out of 80

Training loss: 1.090.. Validation loss: 0.846..

AUC: 0.50 PR AUC: 0.28

Epoch [50] out of 80

Training loss: 1.089.. Validation loss: 0.862..

AUC: 0.61 PR AUC: 0.31

Epoch [51] out of 80

Training loss: 1.090.. Validation loss: 0.849..

AUC: 0.59 PR AUC: 0.32

Epoch [52] out of 80

Training loss: 1.089.. Validation loss: 0.845..

AUC: 0.62 PR AUC: 0.33

Epoch [53] out of 80

Training loss: 1.089.. Validation loss: 0.838..

AUC: 0.55 PR AUC: 0.30

Epoch [54] out of 80

Training loss: 1.089.. Validation loss: 0.809..

AUC: 0.56 PR AUC: 0.29

Epoch [55] out of 80

Training loss: 1.088.. Validation loss: 0.813..

AUC: 0.56 PR AUC: 0.30

Epoch [56] out of 80

Training loss: 1.088.. Validation loss: 0.859..

AUC: 0.63 PR AUC: 0.33

Epoch [57] out of 80

Training loss: 1.089.. Validation loss: 0.816..

AUC: 0.54 PR AUC: 0.30

Epoch [58] out of 80

Training loss: 1.089.. Validation loss: 0.804..

AUC: 0.56 PR AUC: 0.31

Epoch [59] out of 80

Training loss: 1.088.. Validation loss: 0.816..

AUC: 0.61 PR AUC: 0.29

Epoch [60] out of 80

Training loss: 1.090.. Validation loss: 0.809..

AUC: 0.56 PR AUC: 0.30

Epoch [61] out of 80

Training loss: 1.089.. Validation loss: 0.816..

AUC: 0.54 PR AUC: 0.27

Epoch [62] out of 80

Training loss: 1.090.. Validation loss: 0.823..

AUC: 0.58 PR AUC: 0.31

Epoch [63] out of 80

Training loss: 1.088.. Validation loss: 0.830..

AUC: 0.58 PR AUC: 0.31

Epoch [64] out of 80

Training loss: 1.090.. Validation loss: 0.843..

AUC: 0.63 PR AUC: 0.32

Epoch [65] out of 80

Training loss: 1.089.. Validation loss: 0.820..

AUC: 0.54 PR AUC: 0.28

Epoch [66] out of 80

Training loss: 1.089.. Validation loss: 0.860..

AUC: 0.59 PR AUC: 0.31

Epoch [67] out of 80

Training loss: 1.089.. Validation loss: 0.854..

AUC: 0.59 PR AUC: 0.31

Epoch [68] out of 80

Training loss: 1.089.. Validation loss: 0.829..

AUC: 0.61 PR AUC: 0.31

Epoch [69] out of 80

Training loss: 1.087.. Validation loss: 0.873..

AUC: 0.67 PR AUC: 0.33

Epoch [70] out of 80

Training loss: 1.088.. Validation loss: 0.839..

AUC: 0.52 PR AUC: 0.29

Epoch [71] out of 80

Training loss: 1.089.. Validation loss: 0.824..

AUC: 0.60 PR AUC: 0.30

Epoch [72] out of 80

Training loss: 1.088.. Validation loss: 0.844..

AUC: 0.58 PR AUC: 0.31

Epoch [73] out of 80

Training loss: 1.088.. Validation loss: 0.858..

AUC: 0.57 PR AUC: 0.31

Epoch [74] out of 80

Training loss: 1.088.. Validation loss: 0.861..

AUC: 0.63 PR AUC: 0.33

Epoch [75] out of 80

Training loss: 1.088.. Validation loss: 0.846..

AUC: 0.62 PR AUC: 0.31

Epoch [76] out of 80

Training loss: 1.089.. Validation loss: 0.826..

AUC: 0.62 PR AUC: 0.32

Epoch [77] out of 80

Training loss: 1.088.. Validation loss: 0.857..

AUC: 0.61 PR AUC: 0.31

Epoch [78] out of 80

Training loss: 1.089.. Validation loss: 0.887..

AUC: 0.49 PR AUC: 0.29

Epoch [79] out of 80

Training loss: 1.088.. Validation loss: 0.851..

AUC: 0.59 PR AUC: 0.30

Epoch [80] out of 80

Training loss: 1.087.. Validation loss: 0.846..

AUC: 0.63 PR AUC: 0.31

Finished Training

starttime = 2021-01-12 18:01:52.085158

endtime = 2021-01-12 20:10:44.716215

Last model

Area Under ROC Curve: 0.57

Area Under PR Curve(AP): 0.71

Brier score : 0.248

Accuracy for Classifier : 0.56

Cut off: 0.5703

[[1847 152]

[1961 816]]

Best model

Area Under ROC Curve: 0.56

Area Under PR Curve(AP): 0.70

Brier score : 0.250

Accuracy for Classifier : 0.55

Cut off: 0.5703

[[1840 159]

[1977 800]]

hypercount: 8

i-Onedir\_2\_lr\_0.0001\_drop0.2

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, num\_layers=2, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0.2, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.333.. Validation loss: 0.708..

AUC: 0.50 PR AUC: 0.53

Epoch [2] out of 80

Training loss: 1.235.. Validation loss: 0.784..

AUC: 0.50 PR AUC: 0.53

Epoch [3] out of 80

Training loss: 1.205.. Validation loss: 0.834..

AUC: 0.50 PR AUC: 0.53

Epoch [4] out of 80

Training loss: 1.199.. Validation loss: 0.858..

AUC: 0.50 PR AUC: 0.53

Epoch [5] out of 80

Training loss: 1.198.. Validation loss: 0.867..

AUC: 0.50 PR AUC: 0.53

Epoch [6] out of 80

Training loss: 1.198.. Validation loss: 0.871..

AUC: 0.50 PR AUC: 0.53

Epoch [7] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [8] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [9] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [10] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [11] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

out of patience

Finished Training

starttime = 2021-01-12 20:10:45.316875

endtime = 2021-01-12 20:28:21.175776

Last model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.246

Accuracy for Classifier : 0.42

Cut off: 1.5258

[[1999 0]

[2777 0]]

Best model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.246

Accuracy for Classifier : 0.42

Cut off: 1.5258

[[1999 0]

[2777 0]]

hypercount: 9

i-Onedir\_3\_lr\_0.001\_nodrop

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, num\_layers=3, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.134.. Validation loss: 0.515..

AUC: 0.86 PR AUC: 0.42

Epoch [2] out of 80

Training loss: 1.090.. Validation loss: 0.505..

AUC: 0.85 PR AUC: 0.38

Epoch [3] out of 80

Training loss: 1.077.. Validation loss: 0.495..

AUC: 0.86 PR AUC: 0.38

Epoch [4] out of 80

Training loss: 1.068.. Validation loss: 0.507..

AUC: 0.85 PR AUC: 0.36

Epoch [5] out of 80

Training loss: 1.059.. Validation loss: 0.499..

AUC: 0.86 PR AUC: 0.39

Epoch [6] out of 80

Training loss: 1.054.. Validation loss: 0.518..

AUC: 0.84 PR AUC: 0.38

Epoch [7] out of 80

Training loss: 1.050.. Validation loss: 0.520..

AUC: 0.84 PR AUC: 0.38

Epoch [8] out of 80

Training loss: 1.047.. Validation loss: 0.509..

AUC: 0.85 PR AUC: 0.38

Epoch [9] out of 80

Training loss: 1.045.. Validation loss: 0.513..

AUC: 0.85 PR AUC: 0.39

Epoch [10] out of 80

Training loss: 1.043.. Validation loss: 0.505..

AUC: 0.84 PR AUC: 0.38

Epoch [11] out of 80

Training loss: 1.042.. Validation loss: 0.522..

AUC: 0.83 PR AUC: 0.37

Epoch [12] out of 80

Training loss: 1.041.. Validation loss: 0.530..

AUC: 0.82 PR AUC: 0.37

Epoch [13] out of 80

Training loss: 1.040.. Validation loss: 0.542..

AUC: 0.81 PR AUC: 0.37

Epoch [14] out of 80

Training loss: 1.039.. Validation loss: 0.548..

AUC: 0.80 PR AUC: 0.36

Epoch [15] out of 80

Training loss: 1.039.. Validation loss: 0.557..

AUC: 0.78 PR AUC: 0.36

Epoch [16] out of 80

Training loss: 1.038.. Validation loss: 0.555..

AUC: 0.79 PR AUC: 0.36

Epoch [17] out of 80

Training loss: 1.037.. Validation loss: 0.556..

AUC: 0.79 PR AUC: 0.36

Epoch [18] out of 80

Training loss: 1.037.. Validation loss: 0.565..

AUC: 0.79 PR AUC: 0.36

Epoch [19] out of 80

Training loss: 1.036.. Validation loss: 0.585..

AUC: 0.77 PR AUC: 0.35

Epoch [20] out of 80

Training loss: 1.036.. Validation loss: 0.581..

AUC: 0.77 PR AUC: 0.35

Epoch [21] out of 80

Training loss: 1.035.. Validation loss: 0.585..

AUC: 0.76 PR AUC: 0.35

Epoch [22] out of 80

Training loss: 1.035.. Validation loss: 0.582..

AUC: 0.77 PR AUC: 0.35

Epoch [23] out of 80

Training loss: 1.035.. Validation loss: 0.595..

AUC: 0.77 PR AUC: 0.35

Epoch [24] out of 80

Training loss: 1.035.. Validation loss: 0.597..

AUC: 0.77 PR AUC: 0.35

Epoch [25] out of 80

Training loss: 1.034.. Validation loss: 0.592..

AUC: 0.77 PR AUC: 0.34

Epoch [26] out of 80

Training loss: 1.034.. Validation loss: 0.593..

AUC: 0.77 PR AUC: 0.35

Epoch [27] out of 80

Training loss: 1.034.. Validation loss: 0.600..

AUC: 0.75 PR AUC: 0.34

Epoch [28] out of 80

Training loss: 1.033.. Validation loss: 0.590..

AUC: 0.75 PR AUC: 0.34

Epoch [29] out of 80

Training loss: 1.033.. Validation loss: 0.594..

AUC: 0.75 PR AUC: 0.34

Epoch [30] out of 80

Training loss: 1.032.. Validation loss: 0.611..

AUC: 0.75 PR AUC: 0.34

Epoch [31] out of 80

Training loss: 1.032.. Validation loss: 0.614..

AUC: 0.75 PR AUC: 0.34

Epoch [32] out of 80

Training loss: 1.031.. Validation loss: 0.633..

AUC: 0.75 PR AUC: 0.34

Epoch [33] out of 80

Training loss: 1.031.. Validation loss: 0.651..

AUC: 0.73 PR AUC: 0.34

Epoch [34] out of 80

Training loss: 1.031.. Validation loss: 0.669..

AUC: 0.72 PR AUC: 0.33

Epoch [35] out of 80

Training loss: 1.030.. Validation loss: 0.672..

AUC: 0.72 PR AUC: 0.33

Epoch [36] out of 80

Training loss: 1.030.. Validation loss: 0.677..

AUC: 0.71 PR AUC: 0.33

Epoch [37] out of 80

Training loss: 1.030.. Validation loss: 0.696..

AUC: 0.70 PR AUC: 0.32

Epoch [38] out of 80

Training loss: 1.030.. Validation loss: 0.695..

AUC: 0.70 PR AUC: 0.32

Epoch [39] out of 80

Training loss: 1.030.. Validation loss: 0.709..

AUC: 0.69 PR AUC: 0.32

Epoch [40] out of 80

Training loss: 1.030.. Validation loss: 0.759..

AUC: 0.68 PR AUC: 0.32

Epoch [41] out of 80

Training loss: 1.029.. Validation loss: 0.735..

AUC: 0.69 PR AUC: 0.32

Epoch [42] out of 80

Training loss: 1.029.. Validation loss: 0.776..

AUC: 0.67 PR AUC: 0.32

Epoch [43] out of 80

Training loss: 1.029.. Validation loss: 0.776..

AUC: 0.66 PR AUC: 0.32

Epoch [44] out of 80

Training loss: 1.029.. Validation loss: 0.764..

AUC: 0.67 PR AUC: 0.32

Epoch [45] out of 80

Training loss: 1.029.. Validation loss: 0.763..

AUC: 0.67 PR AUC: 0.32

Epoch [46] out of 80

Training loss: 1.028.. Validation loss: 0.733..

AUC: 0.68 PR AUC: 0.32

Epoch [47] out of 80

Training loss: 1.028.. Validation loss: 0.734..

AUC: 0.69 PR AUC: 0.32

Epoch [48] out of 80

Training loss: 1.029.. Validation loss: 0.688..

AUC: 0.70 PR AUC: 0.32

Epoch [49] out of 80

Training loss: 1.028.. Validation loss: 0.706..

AUC: 0.70 PR AUC: 0.33

Epoch [50] out of 80

Training loss: 1.028.. Validation loss: 0.715..

AUC: 0.70 PR AUC: 0.32

Epoch [51] out of 80

Training loss: 1.028.. Validation loss: 0.681..

AUC: 0.71 PR AUC: 0.33

Epoch [52] out of 80

Training loss: 1.028.. Validation loss: 0.690..

AUC: 0.71 PR AUC: 0.33

Epoch [53] out of 80

Training loss: 1.027.. Validation loss: 0.668..

AUC: 0.73 PR AUC: 0.33

Epoch [54] out of 80

Training loss: 1.027.. Validation loss: 0.682..

AUC: 0.72 PR AUC: 0.33

Epoch [55] out of 80

Training loss: 1.027.. Validation loss: 0.706..

AUC: 0.71 PR AUC: 0.33

Epoch [56] out of 80

Training loss: 1.027.. Validation loss: 0.725..

AUC: 0.70 PR AUC: 0.33

Epoch [57] out of 80

Training loss: 1.026.. Validation loss: 0.712..

AUC: 0.71 PR AUC: 0.32

Epoch [58] out of 80

Training loss: 1.026.. Validation loss: 0.717..

AUC: 0.70 PR AUC: 0.32

Epoch [59] out of 80

Training loss: 1.026.. Validation loss: 0.712..

AUC: 0.71 PR AUC: 0.33

Epoch [60] out of 80

Training loss: 1.026.. Validation loss: 0.715..

AUC: 0.70 PR AUC: 0.32

Epoch [61] out of 80

Training loss: 1.026.. Validation loss: 0.730..

AUC: 0.69 PR AUC: 0.32

Epoch [62] out of 80

Training loss: 1.026.. Validation loss: 0.691..

AUC: 0.71 PR AUC: 0.32

Epoch [63] out of 80

Training loss: 1.026.. Validation loss: 0.710..

AUC: 0.71 PR AUC: 0.32

Epoch [64] out of 80

Training loss: 1.026.. Validation loss: 0.678..

AUC: 0.72 PR AUC: 0.33

Epoch [65] out of 80

Training loss: 1.025.. Validation loss: 0.689..

AUC: 0.72 PR AUC: 0.33

Epoch [66] out of 80

Training loss: 1.025.. Validation loss: 0.703..

AUC: 0.70 PR AUC: 0.32

Epoch [67] out of 80

Training loss: 1.025.. Validation loss: 0.712..

AUC: 0.71 PR AUC: 0.32

Epoch [68] out of 80

Training loss: 1.025.. Validation loss: 0.712..

AUC: 0.71 PR AUC: 0.32

Epoch [69] out of 80

Training loss: 1.025.. Validation loss: 0.722..

AUC: 0.69 PR AUC: 0.32

Epoch [70] out of 80

Training loss: 1.025.. Validation loss: 0.724..

AUC: 0.69 PR AUC: 0.32

Epoch [71] out of 80

Training loss: 1.025.. Validation loss: 0.757..

AUC: 0.67 PR AUC: 0.32

Epoch [72] out of 80

Training loss: 1.025.. Validation loss: 0.766..

AUC: 0.66 PR AUC: 0.32

Epoch [73] out of 80

Training loss: 1.024.. Validation loss: 0.805..

AUC: 0.65 PR AUC: 0.32

Epoch [74] out of 80

Training loss: 1.024.. Validation loss: 0.745..

AUC: 0.66 PR AUC: 0.32

Epoch [75] out of 80

Training loss: 1.024.. Validation loss: 0.778..

AUC: 0.65 PR AUC: 0.31

Epoch [76] out of 80

Training loss: 1.024.. Validation loss: 0.827..

AUC: 0.64 PR AUC: 0.31

Epoch [77] out of 80

Training loss: 1.024.. Validation loss: 0.808..

AUC: 0.64 PR AUC: 0.31

Epoch [78] out of 80

Training loss: 1.024.. Validation loss: 0.806..

AUC: 0.64 PR AUC: 0.31

Epoch [79] out of 80

Training loss: 1.024.. Validation loss: 0.859..

AUC: 0.61 PR AUC: 0.31

Epoch [80] out of 80

Training loss: 1.024.. Validation loss: 0.876..

AUC: 0.60 PR AUC: 0.30

Finished Training

starttime = 2021-01-12 20:28:21.872473

endtime = 2021-01-12 23:37:56.866792

Last model

Area Under ROC Curve: 0.60

Area Under PR Curve(AP): 0.72

Brier score : 0.257

Accuracy for Classifier : 0.55

Cut off: 0.5578

[[1473 526]

[1633 1144]]

Best model

Area Under ROC Curve: 0.60

Area Under PR Curve(AP): 0.72

Brier score : 0.257

Accuracy for Classifier : 0.55

Cut off: 0.5578

[[1473 526]

[1633 1144]]

hypercount: 10

i-Onedir\_3\_lr\_0.0001\_nodrop

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, num\_layers=3, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.222.. Validation loss: 0.905..

AUC: 0.13 PR AUC: 0.03

Epoch [2] out of 80

Training loss: 1.198.. Validation loss: 0.867..

AUC: 0.47 PR AUC: 0.07

Epoch [3] out of 80

Training loss: 1.197.. Validation loss: 0.863..

AUC: 0.44 PR AUC: 0.07

Epoch [4] out of 80

Training loss: 1.197.. Validation loss: 0.859..

AUC: 0.65 PR AUC: 0.10

Epoch [5] out of 80

Training loss: 1.196.. Validation loss: 0.854..

AUC: 0.77 PR AUC: 0.12

Epoch [6] out of 80

Training loss: 1.192.. Validation loss: 0.875..

AUC: 0.57 PR AUC: 0.12

Epoch [7] out of 80

Training loss: 1.176.. Validation loss: 0.755..

AUC: 0.84 PR AUC: 0.31

Epoch [8] out of 80

Training loss: 1.157.. Validation loss: 0.690..

AUC: 0.86 PR AUC: 0.32

Epoch [9] out of 80

Training loss: 1.144.. Validation loss: 0.649..

AUC: 0.86 PR AUC: 0.32

Epoch [10] out of 80

Training loss: 1.135.. Validation loss: 0.626..

AUC: 0.69 PR AUC: 0.28

Epoch [11] out of 80

Training loss: 1.128.. Validation loss: 0.613..

AUC: 0.65 PR AUC: 0.27

Epoch [12] out of 80

Training loss: 1.123.. Validation loss: 0.609..

AUC: 0.63 PR AUC: 0.27

Epoch [13] out of 80

Training loss: 1.119.. Validation loss: 0.610..

AUC: 0.62 PR AUC: 0.26

Epoch [14] out of 80

Training loss: 1.115.. Validation loss: 0.619..

AUC: 0.61 PR AUC: 0.26

Epoch [15] out of 80

Training loss: 1.112.. Validation loss: 0.633..

AUC: 0.59 PR AUC: 0.25

Epoch [16] out of 80

Training loss: 1.109.. Validation loss: 0.652..

AUC: 0.58 PR AUC: 0.25

Epoch [17] out of 80

Training loss: 1.107.. Validation loss: 0.677..

AUC: 0.57 PR AUC: 0.25

Epoch [18] out of 80

Training loss: 1.104.. Validation loss: 0.703..

AUC: 0.56 PR AUC: 0.24

Epoch [19] out of 80

Training loss: 1.101.. Validation loss: 0.725..

AUC: 0.54 PR AUC: 0.24

Epoch [20] out of 80

Training loss: 1.098.. Validation loss: 0.752..

AUC: 0.52 PR AUC: 0.24

Epoch [21] out of 80

Training loss: 1.095.. Validation loss: 0.771..

AUC: 0.51 PR AUC: 0.24

Epoch [22] out of 80

Training loss: 1.093.. Validation loss: 0.789..

AUC: 0.50 PR AUC: 0.23

Epoch [23] out of 80

Training loss: 1.091.. Validation loss: 0.810..

AUC: 0.49 PR AUC: 0.23

Epoch [24] out of 80

Training loss: 1.089.. Validation loss: 0.832..

AUC: 0.48 PR AUC: 0.23

Epoch [25] out of 80

Training loss: 1.088.. Validation loss: 0.857..

AUC: 0.46 PR AUC: 0.22

Epoch [26] out of 80

Training loss: 1.087.. Validation loss: 0.886..

AUC: 0.45 PR AUC: 0.21

Epoch [27] out of 80

Training loss: 1.085.. Validation loss: 0.925..

AUC: 0.44 PR AUC: 0.21

Epoch [28] out of 80

Training loss: 1.084.. Validation loss: 0.976..

AUC: 0.42 PR AUC: 0.20

Epoch [29] out of 80

Training loss: 1.082.. Validation loss: 1.025..

AUC: 0.41 PR AUC: 0.19

Epoch [30] out of 80

Training loss: 1.081.. Validation loss: 1.064..

AUC: 0.40 PR AUC: 0.18

Epoch [31] out of 80

Training loss: 1.079.. Validation loss: 1.094..

AUC: 0.39 PR AUC: 0.18

Epoch [32] out of 80

Training loss: 1.078.. Validation loss: 1.115..

AUC: 0.39 PR AUC: 0.18

Epoch [33] out of 80

Training loss: 1.076.. Validation loss: 1.131..

AUC: 0.39 PR AUC: 0.18

Epoch [34] out of 80

Training loss: 1.075.. Validation loss: 1.145..

AUC: 0.38 PR AUC: 0.18

Epoch [35] out of 80

Training loss: 1.074.. Validation loss: 1.156..

AUC: 0.38 PR AUC: 0.18

Epoch [36] out of 80

Training loss: 1.073.. Validation loss: 1.164..

AUC: 0.38 PR AUC: 0.18

Epoch [37] out of 80

Training loss: 1.072.. Validation loss: 1.168..

AUC: 0.39 PR AUC: 0.18

Epoch [38] out of 80

Training loss: 1.071.. Validation loss: 1.172..

AUC: 0.39 PR AUC: 0.18

Epoch [39] out of 80

Training loss: 1.071.. Validation loss: 1.175..

AUC: 0.39 PR AUC: 0.18

Epoch [40] out of 80

Training loss: 1.070.. Validation loss: 1.176..

AUC: 0.39 PR AUC: 0.18

Epoch [41] out of 80

Training loss: 1.069.. Validation loss: 1.179..

AUC: 0.39 PR AUC: 0.18

Epoch [42] out of 80

Training loss: 1.068.. Validation loss: 1.182..

AUC: 0.39 PR AUC: 0.18

Epoch [43] out of 80

Training loss: 1.068.. Validation loss: 1.186..

AUC: 0.39 PR AUC: 0.18

Epoch [44] out of 80

Training loss: 1.067.. Validation loss: 1.188..

AUC: 0.39 PR AUC: 0.18

Epoch [45] out of 80

Training loss: 1.066.. Validation loss: 1.188..

AUC: 0.40 PR AUC: 0.19

Epoch [46] out of 80

Training loss: 1.066.. Validation loss: 1.190..

AUC: 0.40 PR AUC: 0.19

Epoch [47] out of 80

Training loss: 1.065.. Validation loss: 1.192..

AUC: 0.40 PR AUC: 0.19

Epoch [48] out of 80

Training loss: 1.064.. Validation loss: 1.192..

AUC: 0.40 PR AUC: 0.19

Epoch [49] out of 80

Training loss: 1.064.. Validation loss: 1.193..

AUC: 0.40 PR AUC: 0.19

Epoch [50] out of 80

Training loss: 1.063.. Validation loss: 1.193..

AUC: 0.41 PR AUC: 0.19

Epoch [51] out of 80

Training loss: 1.062.. Validation loss: 1.195..

AUC: 0.41 PR AUC: 0.19

Epoch [52] out of 80

Training loss: 1.062.. Validation loss: 1.197..

AUC: 0.41 PR AUC: 0.19

Epoch [53] out of 80

Training loss: 1.061.. Validation loss: 1.200..

AUC: 0.41 PR AUC: 0.19

Epoch [54] out of 80

Training loss: 1.060.. Validation loss: 1.202..

AUC: 0.41 PR AUC: 0.19

Epoch [55] out of 80

Training loss: 1.060.. Validation loss: 1.206..

AUC: 0.41 PR AUC: 0.19

Epoch [56] out of 80

Training loss: 1.059.. Validation loss: 1.211..

AUC: 0.41 PR AUC: 0.19

Epoch [57] out of 80

Training loss: 1.058.. Validation loss: 1.215..

AUC: 0.41 PR AUC: 0.19

Epoch [58] out of 80

Training loss: 1.058.. Validation loss: 1.218..

AUC: 0.41 PR AUC: 0.20

Epoch [59] out of 80

Training loss: 1.057.. Validation loss: 1.223..

AUC: 0.41 PR AUC: 0.20

Epoch [60] out of 80

Training loss: 1.056.. Validation loss: 1.228..

AUC: 0.41 PR AUC: 0.20

Epoch [61] out of 80

Training loss: 1.056.. Validation loss: 1.233..

AUC: 0.41 PR AUC: 0.20

Epoch [62] out of 80

Training loss: 1.055.. Validation loss: 1.236..

AUC: 0.42 PR AUC: 0.20

Epoch [63] out of 80

Training loss: 1.055.. Validation loss: 1.240..

AUC: 0.42 PR AUC: 0.20

Epoch [64] out of 80

Training loss: 1.054.. Validation loss: 1.243..

AUC: 0.42 PR AUC: 0.20

Epoch [65] out of 80

Training loss: 1.053.. Validation loss: 1.249..

AUC: 0.42 PR AUC: 0.20

Epoch [66] out of 80

Training loss: 1.053.. Validation loss: 1.254..

AUC: 0.42 PR AUC: 0.20

Epoch [67] out of 80

Training loss: 1.052.. Validation loss: 1.259..

AUC: 0.42 PR AUC: 0.20

Epoch [68] out of 80

Training loss: 1.052.. Validation loss: 1.265..

AUC: 0.42 PR AUC: 0.20

Epoch [69] out of 80

Training loss: 1.051.. Validation loss: 1.269..

AUC: 0.42 PR AUC: 0.20

Epoch [70] out of 80

Training loss: 1.051.. Validation loss: 1.275..

AUC: 0.42 PR AUC: 0.20

Epoch [71] out of 80

Training loss: 1.050.. Validation loss: 1.280..

AUC: 0.42 PR AUC: 0.20

Epoch [72] out of 80

Training loss: 1.050.. Validation loss: 1.284..

AUC: 0.42 PR AUC: 0.20

Epoch [73] out of 80

Training loss: 1.049.. Validation loss: 1.288..

AUC: 0.42 PR AUC: 0.20

Epoch [74] out of 80

Training loss: 1.049.. Validation loss: 1.294..

AUC: 0.42 PR AUC: 0.20

Epoch [75] out of 80

Training loss: 1.049.. Validation loss: 1.302..

AUC: 0.42 PR AUC: 0.21

Epoch [76] out of 80

Training loss: 1.048.. Validation loss: 1.308..

AUC: 0.42 PR AUC: 0.21

Epoch [77] out of 80

Training loss: 1.048.. Validation loss: 1.314..

AUC: 0.42 PR AUC: 0.21

Epoch [78] out of 80

Training loss: 1.047.. Validation loss: 1.320..

AUC: 0.42 PR AUC: 0.21

Epoch [79] out of 80

Training loss: 1.047.. Validation loss: 1.325..

AUC: 0.42 PR AUC: 0.21

Epoch [80] out of 80

Training loss: 1.047.. Validation loss: 1.331..

AUC: 0.42 PR AUC: 0.21

Finished Training

starttime = 2021-01-12 23:37:57.565250

endtime = 2021-01-13 02:47:15.476344

Last model

Area Under ROC Curve: 0.49

Area Under PR Curve(AP): 0.62

Brier score : 0.288

Accuracy for Classifier : 0.48

Cut off: 0.7786

[[1982 17]

[2485 292]]

Best model

Area Under ROC Curve: 0.49

Area Under PR Curve(AP): 0.62

Brier score : 0.288

Accuracy for Classifier : 0.48

Cut off: 0.7786

[[1982 17]

[2485 292]]

hypercount: 11

i-Onedir\_3\_lr\_0.001\_drop0.2

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, num\_layers=3, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0.2, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.151.. Validation loss: 0.701..

AUC: 0.72 PR AUC: 0.26

Epoch [2] out of 80

Training loss: 1.123.. Validation loss: 0.691..

AUC: 0.72 PR AUC: 0.28

Epoch [3] out of 80

Training loss: 1.117.. Validation loss: 0.678..

AUC: 0.79 PR AUC: 0.32

Epoch [4] out of 80

Training loss: 1.113.. Validation loss: 0.681..

AUC: 0.78 PR AUC: 0.31

Epoch [5] out of 80

Training loss: 1.110.. Validation loss: 0.669..

AUC: 0.80 PR AUC: 0.33

Epoch [6] out of 80

Training loss: 1.107.. Validation loss: 0.665..

AUC: 0.84 PR AUC: 0.35

Epoch [7] out of 80

Training loss: 1.104.. Validation loss: 0.664..

AUC: 0.80 PR AUC: 0.35

Epoch [8] out of 80

Training loss: 1.103.. Validation loss: 0.662..

AUC: 0.83 PR AUC: 0.35

Epoch [9] out of 80

Training loss: 1.102.. Validation loss: 0.659..

AUC: 0.84 PR AUC: 0.36

Epoch [10] out of 80

Training loss: 1.101.. Validation loss: 0.661..

AUC: 0.82 PR AUC: 0.34

Epoch [11] out of 80

Training loss: 1.100.. Validation loss: 0.665..

AUC: 0.77 PR AUC: 0.31

Epoch [12] out of 80

Training loss: 1.099.. Validation loss: 0.662..

AUC: 0.81 PR AUC: 0.31

Epoch [13] out of 80

Training loss: 1.098.. Validation loss: 0.662..

AUC: 0.69 PR AUC: 0.30

Epoch [14] out of 80

Training loss: 1.097.. Validation loss: 0.665..

AUC: 0.72 PR AUC: 0.31

Epoch [15] out of 80

Training loss: 1.096.. Validation loss: 0.662..

AUC: 0.69 PR AUC: 0.31

Epoch [16] out of 80

Training loss: 1.096.. Validation loss: 0.672..

AUC: 0.71 PR AUC: 0.32

Epoch [17] out of 80

Training loss: 1.096.. Validation loss: 0.673..

AUC: 0.67 PR AUC: 0.31

Epoch [18] out of 80

Training loss: 1.094.. Validation loss: 0.704..

AUC: 0.66 PR AUC: 0.30

Epoch [19] out of 80

Training loss: 1.096.. Validation loss: 0.663..

AUC: 0.80 PR AUC: 0.34

Epoch [20] out of 80

Training loss: 1.094.. Validation loss: 0.654..

AUC: 0.81 PR AUC: 0.34

Epoch [21] out of 80

Training loss: 1.092.. Validation loss: 0.661..

AUC: 0.67 PR AUC: 0.30

Epoch [22] out of 80

Training loss: 1.094.. Validation loss: 0.665..

AUC: 0.72 PR AUC: 0.32

Epoch [23] out of 80

Training loss: 1.094.. Validation loss: 0.660..

AUC: 0.70 PR AUC: 0.34

Epoch [24] out of 80

Training loss: 1.093.. Validation loss: 0.668..

AUC: 0.70 PR AUC: 0.31

Epoch [25] out of 80

Training loss: 1.093.. Validation loss: 0.652..

AUC: 0.71 PR AUC: 0.32

Epoch [26] out of 80

Training loss: 1.093.. Validation loss: 0.655..

AUC: 0.80 PR AUC: 0.35

Epoch [27] out of 80

Training loss: 1.092.. Validation loss: 0.673..

AUC: 0.69 PR AUC: 0.34

Epoch [28] out of 80

Training loss: 1.093.. Validation loss: 0.659..

AUC: 0.73 PR AUC: 0.35

Epoch [29] out of 80

Training loss: 1.092.. Validation loss: 0.660..

AUC: 0.69 PR AUC: 0.34

Epoch [30] out of 80

Training loss: 1.091.. Validation loss: 0.651..

AUC: 0.68 PR AUC: 0.33

Epoch [31] out of 80

Training loss: 1.092.. Validation loss: 0.652..

AUC: 0.82 PR AUC: 0.37

Epoch [32] out of 80

Training loss: 1.091.. Validation loss: 0.658..

AUC: 0.71 PR AUC: 0.33

Epoch [33] out of 80

Training loss: 1.091.. Validation loss: 0.648..

AUC: 0.82 PR AUC: 0.37

Epoch [34] out of 80

Training loss: 1.092.. Validation loss: 0.651..

AUC: 0.81 PR AUC: 0.38

Epoch [35] out of 80

Training loss: 1.092.. Validation loss: 0.651..

AUC: 0.81 PR AUC: 0.37

Epoch [36] out of 80

Training loss: 1.091.. Validation loss: 0.665..

AUC: 0.71 PR AUC: 0.34

Epoch [37] out of 80

Training loss: 1.090.. Validation loss: 0.663..

AUC: 0.70 PR AUC: 0.33

Epoch [38] out of 80

Training loss: 1.091.. Validation loss: 0.667..

AUC: 0.70 PR AUC: 0.33

Epoch [39] out of 80

Training loss: 1.092.. Validation loss: 0.651..

AUC: 0.81 PR AUC: 0.38

Epoch [40] out of 80

Training loss: 1.092.. Validation loss: 0.656..

AUC: 0.69 PR AUC: 0.35

Epoch [41] out of 80

Training loss: 1.091.. Validation loss: 0.660..

AUC: 0.70 PR AUC: 0.34

Epoch [42] out of 80

Training loss: 1.090.. Validation loss: 0.654..

AUC: 0.70 PR AUC: 0.35

Epoch [43] out of 80

Training loss: 1.090.. Validation loss: 0.685..

AUC: 0.69 PR AUC: 0.35

Epoch [44] out of 80

Training loss: 1.091.. Validation loss: 0.659..

AUC: 0.69 PR AUC: 0.34

Epoch [45] out of 80

Training loss: 1.090.. Validation loss: 0.661..

AUC: 0.69 PR AUC: 0.34

Epoch [46] out of 80

Training loss: 1.090.. Validation loss: 0.728..

AUC: 0.64 PR AUC: 0.32

Epoch [47] out of 80

Training loss: 1.090.. Validation loss: 0.671..

AUC: 0.69 PR AUC: 0.34

Epoch [48] out of 80

Training loss: 1.089.. Validation loss: 0.699..

AUC: 0.70 PR AUC: 0.33

Epoch [49] out of 80

Training loss: 1.089.. Validation loss: 0.673..

AUC: 0.68 PR AUC: 0.33

Epoch [50] out of 80

Training loss: 1.089.. Validation loss: 0.724..

AUC: 0.66 PR AUC: 0.32

Epoch [51] out of 80

Training loss: 1.091.. Validation loss: 0.733..

AUC: 0.65 PR AUC: 0.32

Epoch [52] out of 80

Training loss: 1.089.. Validation loss: 0.737..

AUC: 0.66 PR AUC: 0.33

Epoch [53] out of 80

Training loss: 1.090.. Validation loss: 0.735..

AUC: 0.64 PR AUC: 0.31

Epoch [54] out of 80

Training loss: 1.090.. Validation loss: 0.745..

AUC: 0.66 PR AUC: 0.32

Epoch [55] out of 80

Training loss: 1.089.. Validation loss: 0.775..

AUC: 0.64 PR AUC: 0.32

Epoch [56] out of 80

Training loss: 1.089.. Validation loss: 0.724..

AUC: 0.66 PR AUC: 0.31

Epoch [57] out of 80

Training loss: 1.089.. Validation loss: 0.706..

AUC: 0.63 PR AUC: 0.30

Epoch [58] out of 80

Training loss: 1.091.. Validation loss: 0.665..

AUC: 0.67 PR AUC: 0.33

Epoch [59] out of 80

Training loss: 1.090.. Validation loss: 0.775..

AUC: 0.65 PR AUC: 0.31

Epoch [60] out of 80

Training loss: 1.090.. Validation loss: 0.818..

AUC: 0.61 PR AUC: 0.30

Epoch [61] out of 80

Training loss: 1.091.. Validation loss: 0.798..

AUC: 0.62 PR AUC: 0.30

Epoch [62] out of 80

Training loss: 1.089.. Validation loss: 0.771..

AUC: 0.63 PR AUC: 0.31

Epoch [63] out of 80

Training loss: 1.090.. Validation loss: 0.800..

AUC: 0.60 PR AUC: 0.30

Epoch [64] out of 80

Training loss: 1.089.. Validation loss: 0.815..

AUC: 0.59 PR AUC: 0.28

Epoch [65] out of 80

Training loss: 1.090.. Validation loss: 0.787..

AUC: 0.61 PR AUC: 0.30

Epoch [66] out of 80

Training loss: 1.091.. Validation loss: 0.778..

AUC: 0.63 PR AUC: 0.30

Epoch [67] out of 80

Training loss: 1.089.. Validation loss: 0.717..

AUC: 0.65 PR AUC: 0.30

Epoch [68] out of 80

Training loss: 1.090.. Validation loss: 0.796..

AUC: 0.59 PR AUC: 0.29

Epoch [69] out of 80

Training loss: 1.089.. Validation loss: 0.772..

AUC: 0.64 PR AUC: 0.31

Epoch [70] out of 80

Training loss: 1.089.. Validation loss: 0.836..

AUC: 0.60 PR AUC: 0.30

Epoch [71] out of 80

Training loss: 1.088.. Validation loss: 0.807..

AUC: 0.62 PR AUC: 0.30

Epoch [72] out of 80

Training loss: 1.088.. Validation loss: 0.817..

AUC: 0.63 PR AUC: 0.31

Epoch [73] out of 80

Training loss: 1.089.. Validation loss: 0.794..

AUC: 0.62 PR AUC: 0.30

Epoch [74] out of 80

Training loss: 1.088.. Validation loss: 0.908..

AUC: 0.61 PR AUC: 0.30

Epoch [75] out of 80

Training loss: 1.089.. Validation loss: 0.906..

AUC: 0.61 PR AUC: 0.30

Epoch [76] out of 80

Training loss: 1.088.. Validation loss: 0.840..

AUC: 0.61 PR AUC: 0.30

Epoch [77] out of 80

Training loss: 1.090.. Validation loss: 0.829..

AUC: 0.61 PR AUC: 0.30

Epoch [78] out of 80

Training loss: 1.088.. Validation loss: 0.876..

AUC: 0.60 PR AUC: 0.30

Epoch [79] out of 80

Training loss: 1.089.. Validation loss: 0.890..

AUC: 0.60 PR AUC: 0.30

Epoch [80] out of 80

Training loss: 1.089.. Validation loss: 0.814..

AUC: 0.59 PR AUC: 0.29

Finished Training

starttime = 2021-01-13 02:47:16.204134

endtime = 2021-01-13 05:55:46.125346

Last model

Area Under ROC Curve: 0.55

Area Under PR Curve(AP): 0.69

Brier score : 0.251

Accuracy for Classifier : 0.54

Cut off: 0.5408

[[1704 295]

[1906 871]]

Best model

Area Under ROC Curve: 0.56

Area Under PR Curve(AP): 0.70

Brier score : 0.249

Accuracy for Classifier : 0.54

Cut off: 0.5408

[[1688 311]

[1877 900]]

hypercount: 12

i-Onedir\_3\_lr\_0.0001\_drop0.2

Net(

(fc1): Linear(in\_features=35, out\_features=35, bias=True)

(fc2): LSTM(35, 1, num\_layers=3, batch\_first=True)

(combination\_layer): Linear(in\_features=1, out\_features=1, bias=True)

(projection): Linear(in\_features=1, out\_features=1, bias=True)

(dropout\_layer): Dropout(p=0.2, inplace=False)

(relu): ReLU()

)

Epoch [1] out of 80

Training loss: 1.279.. Validation loss: 1.039..

AUC: 0.50 PR AUC: 0.53

Epoch [2] out of 80

Training loss: 1.211.. Validation loss: 0.929..

AUC: 0.50 PR AUC: 0.53

Epoch [3] out of 80

Training loss: 1.199.. Validation loss: 0.893..

AUC: 0.50 PR AUC: 0.53

Epoch [4] out of 80

Training loss: 1.198.. Validation loss: 0.881..

AUC: 0.50 PR AUC: 0.53

Epoch [5] out of 80

Training loss: 1.198.. Validation loss: 0.876..

AUC: 0.50 PR AUC: 0.53

Epoch [6] out of 80

Training loss: 1.198.. Validation loss: 0.874..

AUC: 0.50 PR AUC: 0.53

Epoch [7] out of 80

Training loss: 1.198.. Validation loss: 0.874..

AUC: 0.50 PR AUC: 0.53

Epoch [8] out of 80

Training loss: 1.198.. Validation loss: 0.874..

AUC: 0.50 PR AUC: 0.53

Epoch [9] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [10] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

Epoch [11] out of 80

Training loss: 1.198.. Validation loss: 0.873..

AUC: 0.50 PR AUC: 0.53

out of patience

Finished Training

starttime = 2021-01-13 05:55:46.843204

endtime = 2021-01-13 06:21:41.497955

Last model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.246

Accuracy for Classifier : 0.42

Cut off: 1.5258

[[1999 0]

[2777 0]]

Best model

Area Under ROC Curve: 0.50

Area Under PR Curve(AP): 0.79

Brier score : 0.246

Accuracy for Classifier : 0.42

Cut off: 1.5258

[[1999 0]

[2777 0]]