

```
1 ssh://sangsq@10.50.221.195:22/home/sangsq/anaconda3/bin/
2 python -u /home/sangsq/.pycharm_helpers/pydev/pydevconsole.py --mode=server
3
4 import sys; print('Python %s on %s' % (sys.version, sys.
5 platform))
6 sys.path.extend(['/home/sangsq/flower/PSEP', '/home/sangsq/
7 flower/PSEP'])
8
9 Python 3.7.3 (default, Mar 27 2019, 22:11:17)
10 Type 'copyright', 'credits' or 'license' for more
11 information
12 IPython 7.4.0 -- An enhanced Interactive Python. Type '?' for help.
13 PyDev console: using IPython 7.4.0
14
15 Python 3.7.3 (default, Mar 27 2019, 22:11:17)
16 [GCC 7.3.0] on linux
17 In[2]: runfile('/home/sangsq/flower/PSEP/model/fm-psep.py',
18 ' ', wdir='/home/sangsq/flower/PSEP/model')
19 loading data
20 remove 0 isolated drugs: []
21 remove finished
22 963 polypharmacy side effects
23 data has been loaded
24 cuda
25 model training ...
26
27 0 loss: tensor(1.6625, device='cuda:0', grad_fn=<
28 AddBackward0>) auprc: 0.5008348475705476 auroc: 0.
29 4999202166782414 ap: 0.5008350789812963
30
31 0 loss: tensor(1.6625, device='cuda:0', grad_fn=<
32 AddBackward0>) auprc: 0.5005589180274486 auroc: 0.
33 5002122993451833 ap: 0.5005610116905556 time: 64.
34 9178638458252
35
36 1 loss: tensor(1.5735, device='cuda:0', grad_fn=<
37 AddBackward0>) auprc: 0.500888335188585 auroc: 0.
38 5003338824121072 ap: 0.5008885605006457
39
40 1 loss: tensor(1.5735, device='cuda:0', grad_fn=<
41 AddBackward0>) auprc: 0.5005302689806845 auroc: 0.
42 5005761017230709 ap: 0.5005322760409714 time: 59.
43 484436988830566
44
45 2 loss: tensor(1.5136, device='cuda:0', grad_fn=<
46 AddBackward0>) auprc: 0.5008864781990351 auroc: 0.
47 500564454388023 ap: 0.5008867272290008
48
49 2 loss: tensor(1.5136, device='cuda:0', grad_fn=<
50 AddBackward0>) auprc: 0.5006953635683552 auroc: 0.
51 5010012412213688 ap: 0.5006973847027901 time: 59.
52 14386034011841
53
54 29
```

```
30 3 loss: tensor(1.4742, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5010641569142801 auroc: 0.
    5009720060473893 ap: 0.5010644220820831
31 3 loss: tensor(1.4742, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5008410328393279 auroc: 0.
    5013666494101893 ap: 0.500843066081137 time: 58.
    484249114990234
32
33 4 loss: tensor(1.4493, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5013346799246265 auroc: 0.
    501455497387432 ap: 0.5013349071801776
34 4 loss: tensor(1.4493, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5010368132775163 auroc: 0.
    5017759222800872 ap: 0.5010387965204067 time: 59.
    81269431114197
35
36 5 loss: tensor(1.4335, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5015001747422205 auroc: 0.
    5019001825468455 ap: 0.5015004001718665
37 5 loss: tensor(1.4335, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5013005263654076 auroc: 0.
    5023994975693346 ap: 0.5013025168249837 time: 58.
    6039764881134
38
39 6 loss: tensor(1.4227, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5019877954018357 auroc: 0.
    5026703312984218 ap: 0.5019880427968979
40 6 loss: tensor(1.4227, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5018334580731971 auroc: 0.
    5032304788878087 ap: 0.5018354511923087 time: 58.
    43820834159851
41
42 7 loss: tensor(1.4148, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5022150669169714 auroc: 0.
    5034926120679956 ap: 0.5022153105070336
43 7 loss: tensor(1.4148, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5022155581318026 auroc: 0.
    5042112076076912 ap: 0.502217554156142 time: 58.
    372990131378174
44
45 8 loss: tensor(1.4084, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5023928296598031 auroc: 0.
    5044340064019724 ap: 0.5023930697002117
46 8 loss: tensor(1.4084, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.502545820039962 auroc: 0.
    5053159139672045 ap: 0.5025479487401411 time: 58.
    731398820877075
47
48 9 loss: tensor(1.4034, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5025089751406586 auroc: 0.
    5054983725178377 ap: 0.5025091902330956
```

```
49 9    loss: tensor(1.4034, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5028790169309171    auroc: 0.
    5065560830091396    ap: 0.5028811295649294    time: 57.
    8917076587677
50
51 10   loss: tensor(1.3992, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5031096170049995    auroc: 0.
    5071190568108849    ap: 0.5031098405565724
52 10   loss: tensor(1.3992, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5034761143201865    auroc: 0.
    5081357321834876    ap: 0.5034781043861533    time: 58.
    042969942092896
53
54 11   loss: tensor(1.3958, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5037545615302639    auroc: 0.
    5087324264108322    ap: 0.5037547687789596
55 11   loss: tensor(1.3958, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5045666662361656    auroc: 0.
    5101720586325886    ap: 0.5045685606590803    time: 58.
    49021553993225
56
57 12   loss: tensor(1.3927, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5054219800490019    auroc: 0.
    5113128276415128    ap: 0.5054221837328795
58 12   loss: tensor(1.3927, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5063954255579313    auroc: 0.
    5129982600883052    ap: 0.5063972956785033    time: 59.
    62449407577515
59
60 13   loss: tensor(1.3901, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5076638883455675    auroc: 0.
    5146598867615874    ap: 0.5076640932768768
61 13   loss: tensor(1.3901, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5088647110486091    auroc: 0.
    5166229885171052    ap: 0.5088666023266116    time: 60.
    285754919052124
62
63 14   loss: tensor(1.3879, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5104046240377279    auroc: 0.
    5186503543103567    ap: 0.5104048440399357
64 14   loss: tensor(1.3879, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5119471618224197    auroc: 0.
    521063236042731    ap: 0.5119491789606345    time: 59.
    75729179382324
65
66 15   loss: tensor(1.3860, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5139530802989842    auroc: 0.
    5237461647827364    ap: 0.5139533039378994
67 15   loss: tensor(1.3860, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.5158300006205789    auroc: 0.
    5265936033809034    ap: 0.5158317504061242    time: 59.
```

```
67 684189558029175
68
69 16 loss: tensor(1.3841, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5182998273513268 auroc: 0.
    530353494290108 ap: 0.5183000572037986
70 16 loss: tensor(1.3841, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5205521061806242 auroc: 0.
    5336006028665058 ap: 0.5205538674958552 time: 59.
    233866930007935
71
72 17 loss: tensor(1.3823, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5232891972622462 auroc: 0.
    5381806384949139 ap: 0.5232893936897187
73 17 loss: tensor(1.3823, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5264222738431035 auroc: 0.
    5422985253889142 ap: 0.5264240291049607 time: 59.
    62047791481018
74
75 18 loss: tensor(1.3802, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5294088095863924 auroc: 0.
    5476991703630898 ap: 0.5294090131365323
76 18 loss: tensor(1.3802, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5332234152451018 auroc: 0.
    5525435457777714 ap: 0.5332253977812162 time: 59.
    69514083862305
77
78 19 loss: tensor(1.3779, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5362763248232755 auroc: 0.
    5583553198896521 ap: 0.536276500472566
79 19 loss: tensor(1.3779, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5408041029024065 auroc: 0.
    5639735335024542 ap: 0.5408059808364991 time: 59.
    62623882293701
80
81 20 loss: tensor(1.3751, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5444283098493118 auroc: 0.
    5701362179444464 ap: 0.5444284625169863
82 20 loss: tensor(1.3751, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5496957492415984 auroc: 0.
    5765151517021049 ap: 0.5496973197619156 time: 59.
    86636567115784
83
84 21 loss: tensor(1.3716, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5540243318061727 auroc: 0.
    5829623633449679 ap: 0.5540244732551881
85 21 loss: tensor(1.3716, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.5603739053931833 auroc: 0.
    5902146345305428 ap: 0.5603753153655596 time: 59.
    70558500289917
86
87 22 loss: tensor(1.3672, device='cuda:0', grad_fn=<
```

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87 AddBackward0>) auprc: 0.5651587281305953 auroc: 0.  
5964017399017928 ap: 0.5651588616218174  
88 22 loss: tensor(1.3672, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.5725778961716225 auroc: 0.  
6044669457248524 ap: 0.5725792644951571 time: 60.  
1185884475708  
89  
90 23 loss: tensor(1.3615, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.5780039573432861 auroc: 0.  
610565664024412 ap: 0.5780040897208719  
91 23 loss: tensor(1.3615, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.5865609856075018 auroc: 0.  
6194199230346822 ap: 0.5865623370148223 time: 58.  
76782011985779  
92  
93 24 loss: tensor(1.3539, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.592992114123813 auroc: 0.  
6256210697760436 ap: 0.5929922381827714  
94 24 loss: tensor(1.3539, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.6026981815400986 auroc: 0.  
6352540255837859 ap: 0.6026995169066374 time: 59.  
67365646362305  
95  
96 25 loss: tensor(1.3439, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.6101262191269328 auroc: 0.  
6419986704585211 ap: 0.6101263377077035  
97 25 loss: tensor(1.3439, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.620849893818721 auroc: 0.  
6523153164435704 ap: 0.6208512149402519 time: 60.  
42483329772949  
98  
99 26 loss: tensor(1.3310, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.6291148879381988 auroc: 0.  
6596875815040544 ap: 0.6291150032036914  
100 26 loss: tensor(1.3310, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.6409463472585173 auroc: 0.  
670729464616592 ap: 0.6409476650883944 time: 60.  
61193108558655  
101  
102 27 loss: tensor(1.3141, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.6498071937426168 auroc: 0.  
6789441963672488 ap: 0.6498073073633764  
103 27 loss: tensor(1.3141, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.6623600029894604 auroc: 0.  
690391674479659 ap: 0.6623613098363165 time: 60.  
84059524536133  
104  
105 28 loss: tensor(1.2929, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.6714609719803447 auroc: 0.  
698961669140609 ap: 0.6714610827469372  
106 28 loss: tensor(1.2929, device='cuda:0', grad_fn=<
```

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106 AddBackward0>) auprc: 0.684423652624135 auroc: 0.  
    7107069139344415 ap: 0.684424924515575 time: 60.  
    36378264427185  
107  
108 29 loss: tensor(1.2666, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.6927660070103563 auroc: 0.  
    7190876100383833 ap: 0.6927661162026807  
109 29 loss: tensor(1.2666, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7061867916992207 auroc: 0.  
    7309516593989557 ap: 0.7061880136937753 time: 61.  
    089638233184814  
110  
111 30 loss: tensor(1.2352, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7128001436361296 auroc: 0.  
    7383690675762922 ap: 0.7128002518388945  
112 30 loss: tensor(1.2352, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7263198864253675 auroc: 0.  
    7500591490362897 ap: 0.7263210684660868 time: 60.  
    679691791534424  
113  
114 31 loss: tensor(1.1989, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7317403703817958 auroc: 0.  
    7565785172659947 ap: 0.731740478651672  
115 31 loss: tensor(1.1989, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7447698529000832 auroc: 0.  
    7676985475781938 ap: 0.744770998123778 time: 60.  
    96424722671509  
116  
117 32 loss: tensor(1.1592, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7491548255815129 auroc: 0.  
    7732187597562372 ap: 0.7491549341871554  
118 32 loss: tensor(1.1592, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7618938787894571 auroc: 0.  
    7839993542574604 ap: 0.7618950112887062 time: 60.  
    63950252532959  
119  
120 33 loss: tensor(1.1184, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7657369117443643 auroc: 0.  
    7889334790976967 ap: 0.765737021059329  
121 33 loss: tensor(1.1184, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7782444073695993 auroc: 0.  
    7993294578537953 ap: 0.7782455164390157 time: 61.  
    431806564331055  
122  
123 34 loss: tensor(1.0788, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7820270088714303 auroc: 0.  
    8040006839457621 ap: 0.7820271194787546  
124 34 loss: tensor(1.0788, device='cuda:0', grad_fn=<  
    AddBackward0>) auprc: 0.7943086080997984 auroc: 0.  
    8141354125192706 ap: 0.7943097271932437 time: 62.  
    765997886657715
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125
126 35 loss: tensor(1.0418, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.7985680606962043 auroc: 0.
     8187984478567651 ap: 0.7985681723628958
127 35 loss: tensor(1.0418, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.810033199040471 auroc: 0.
     8284795949479271 ap: 0.8100342800728683 time: 62.
     37611651420593
128
129 36 loss: tensor(1.0082, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8137900227689437 auroc: 0.
     8328460772744708 ap: 0.8137901429332867
130 36 loss: tensor(1.0082, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8248699201531957 auroc: 0.
     8422049673861901 ap: 0.8248710353212592 time: 62.
     046719551086426
131
132 37 loss: tensor(0.9757, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8277126737063076 auroc: 0.
     8461559286245698 ap: 0.8277127903617033
133 37 loss: tensor(0.9757, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8383462801287572 auroc: 0.
     8550967311372972 ap: 0.8383473749881004 time: 62.
     04962944984436
134
135 38 loss: tensor(0.9425, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8407848468551841 auroc: 0.
     8587006176412948 ap: 0.8407849643100713
136 38 loss: tensor(0.9425, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8506679548835903 auroc: 0.
     8669013854111788 ap: 0.8506689875427913 time: 60.
     89622235298157
137
138 39 loss: tensor(0.9084, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8529129054794193 auroc: 0.
     8699971975827433 ap: 0.8529130269972587
139 39 loss: tensor(0.9084, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8619929726854826 auroc: 0.
     8774480488343845 ap: 0.8619939580243419 time: 61.
     558472633361816
140
141 40 loss: tensor(0.8753, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8633004000290068 auroc: 0.
     8799316756379476 ap: 0.8633005157125346
142 40 loss: tensor(0.8753, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8719098167877887 auroc: 0.
     8868094975308579 ap: 0.8719107714045591 time: 61.
     78757667541504
143
144 41 loss: tensor(0.8430, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.8727546331871137 auroc: 0.
```

```
144 8890291577761052    ap: 0.8727547455476005
145 41    loss: tensor(0.8430, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.8803990787901141    auroc: 0.
    8950486484697932    ap: 0.8803999808755073    time: 62.
    01895546913147
146
147 42    loss: tensor(0.8146, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.8806459602103675    auroc: 0.
    896679382226343    ap: 0.8806460684473191
148 42    loss: tensor(0.8146, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.887568017896011    auroc: 0.
    9019529087623586    ap: 0.8875688803824151    time: 61.
    506611824035645
149
150 43    loss: tensor(0.7900, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.88750130916702    auroc: 0.
    9029637381435558    ap: 0.8875014062484011
151 43    loss: tensor(0.7900, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.8933644469659485    auroc: 0.
    9074821182300006    ap: 0.89336529005688    time: 61.
    52988648414612
152
153 44    loss: tensor(0.7698, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.8928175741962745    auroc: 0.
    9081001271531048    ap: 0.8928176671258656
154 44    loss: tensor(0.7698, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.8981154911475541    auroc: 0.
    9120820801753255    ap: 0.8981163089008274    time: 62.
    052281618118286
155
156 45    loss: tensor(0.7527, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.8972199134144178    auroc: 0.
    9124330400745366    ap: 0.8972200037620761
157 45    loss: tensor(0.7527, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9021534736254462    auroc: 0.
    9160278739918939    ap: 0.9021543187328718    time: 62.
    51536774635315
158
159 46    loss: tensor(0.7374, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9010352158483825    auroc: 0.
    9161043932016176    ap: 0.9010353051976683
160 46    loss: tensor(0.7374, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9054891289824746    auroc: 0.
    9192919798831842    ap: 0.9054899309107071    time: 61.
    03311109542847
161
162 47    loss: tensor(0.7231, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9044090183219177    auroc: 0.
    9192593109049362    ap: 0.9044091018620746
163 47    loss: tensor(0.7231, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9082217890016404    auroc: 0.
```

```
163 9220058281547481      ap: 0.9082225755513872      time: 61.  
     88041090965271  
164  
165 48  loss: tensor(0.7106, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9071085460685423    auroc: 0.  
     9220214028909128    ap: 0.9071086351198774  
166 48  loss: tensor(0.7106, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9107423670292581    auroc: 0.  
     9245317575689738    ap: 0.9107432293020632    time: 62.  
     00407338142395  
167  
168 49  loss: tensor(0.6987, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9097570492249778    auroc: 0.  
     9246187831232848    ap: 0.9097571373475903  
169 49  loss: tensor(0.6987, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9129822085145136    auroc: 0.  
     9268044500714677    ap: 0.9129830532773711    time: 62.  
     41804647445679  
170  
171 50  loss: tensor(0.6885, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9118152314737441    auroc: 0.  
     9267322418110497    ap: 0.9118153137495077  
172 50  loss: tensor(0.6885, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9147846479150777    auroc: 0.  
     9286953338731245    ap: 0.9147854370013057    time: 62.  
     40982270240784  
173  
174 51  loss: tensor(0.6795, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9135768564906336    auroc: 0.  
     928651776918359    ap: 0.9135769452770651  
175 51  loss: tensor(0.6795, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9164247250690076    auroc: 0.  
     9304075053054864    ap: 0.9164254985376057    time: 61.  
     426459550857544  
176  
177 52  loss: tensor(0.6721, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9151520728530573    auroc: 0.  
     9302882946324554    ap: 0.9151521534383408  
178 52  loss: tensor(0.6721, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9179220956447772    auroc: 0.  
     9319463398098717    ap: 0.9179227140102741    time: 60.  
     95884394645691  
179  
180 53  loss: tensor(0.6650, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9165057785049995    auroc: 0.  
     9317190805189779    ap: 0.9165058590132519  
181 53  loss: tensor(0.6650, device='cuda:0', grad_fn=<  
     AddBackward0>)    auprc: 0.9191109613901502    auroc: 0.  
     9331807093357676    ap: 0.9191112972808999    time: 61.  
     49053072929382  
182
```

```
183 54    loss: tensor(0.6587, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9177028661948029    auroc: 0.
    9329228504568152    ap: 0.917702947606159
184 54    loss: tensor(0.6587, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9201726005546754    auroc: 0.
    934259705121374    ap: 0.9201728330813159    time: 62.
    001121044158936
185
186 55    loss: tensor(0.6528, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9188380854716597    auroc: 0.
    9340636597414353    ap: 0.9188381887961374
187 55    loss: tensor(0.6528, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9212103093765118    auroc: 0.
    9352822370755896    ap: 0.9212105079847188    time: 62.
    17702341079712
188
189 56    loss: tensor(0.6481, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9195765887066798    auroc: 0.
    9348818825327432    ap: 0.9195766132024492
190 56    loss: tensor(0.6481, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9220914035140025    auroc: 0.
    9361502704278374    ap: 0.9220915999300866    time: 61.
    50036311149597
191
192 57    loss: tensor(0.6433, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9205057377440489    auroc: 0.
    9357369513454593    ap: 0.9205057577753984
193 57    loss: tensor(0.6433, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9228649190917657    auroc: 0.
    936908751141176    ap: 0.9228651185122891    time: 61.
    71345281600952
194
195 58    loss: tensor(0.6391, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9213188315899152    auroc: 0.
    936543807322843    ap: 0.9213188440127325
196 58    loss: tensor(0.6391, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9236217487398735    auroc: 0.
    9376391118531415    ap: 0.9236219574940459    time: 62.
    590333223342896
197
198 59    loss: tensor(0.6359, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9219389986377313    auroc: 0.
    9371531167582178    ap: 0.9219390026933029
199 59    loss: tensor(0.6359, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9242700366505008    auroc: 0.
    9382664606431761    ap: 0.9242702442365401    time: 62.
    473859548568726
200
201 60    loss: tensor(0.6324, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9226520425983508    auroc: 0.
    9378070295584882    ap: 0.9226521200866652
```

```
202 60    loss: tensor(0.6324, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9248079298497923    auroc: 0.
    9387907569909266    ap: 0.924808152643663    time: 61.
    54778790473938
203
204 61    loss: tensor(0.6296, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9232300022504792    auroc: 0.
    938343475537496    ap: 0.9232300766069044
205 61    loss: tensor(0.6296, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9253267175780018    auroc: 0.
    9392886150015305    ap: 0.9253269410394896    time: 62.
    2337691783905
206
207 62    loss: tensor(0.6276, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9235203495885371    auroc: 0.
    938693495037141    ap: 0.9235203794852188
208 62    loss: tensor(0.6276, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9258179944383156    auroc: 0.
    9397534728177341    ap: 0.9258182205845552    time: 62.
    201764822006226
209
210 63    loss: tensor(0.6254, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9238556531467299    auroc: 0.
    9390856831285052    ap: 0.923855664101108
211 63    loss: tensor(0.6254, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9262514712534256    auroc: 0.
    940162314182697    ap: 0.9262517020883382    time: 61.
    63455128669739
212
213 64    loss: tensor(0.6229, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9244107749309707    auroc: 0.
    9395651041756502    ap: 0.9244108441850295
214 64    loss: tensor(0.6229, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9266934609866824    auroc: 0.
    9405726354481112    ap: 0.9266936886736287    time: 62.
    306678771972656
215
216 65    loss: tensor(0.6203, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9249949785583582    auroc: 0.
    9400466300171163    ap: 0.9249949909469835
217 65    loss: tensor(0.6203, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9271066638412099    auroc: 0.
    9409511931732253    ap: 0.9271068877934582    time: 61.
    05923247337341
218
219 66    loss: tensor(0.6191, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9251555925053205    auroc: 0.
    9402490289095975    ap: 0.9251556130330629
220 66    loss: tensor(0.6191, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9274746522226798    auroc: 0.
    9412822333021683    ap: 0.927474880621726    time: 61.
```

```
220 46074032783508
221
222 67 loss: tensor(0.6173, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9255522543816936 auroc: 0.
    940599927481794 ap: 0.9255523283245428
223 67 loss: tensor(0.6173, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9278315222666679 auroc: 0.
    9415953226717125 ap: 0.9278317413960235 time: 62.
    098371744155884
224
225 68 loss: tensor(0.6155, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9258779648473543 auroc: 0.
    9409432944186635 ap: 0.9258780485596576
226 68 loss: tensor(0.6155, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9281601444089191 auroc: 0.
    9418771180218319 ap: 0.9281603775308284 time: 61.
    35658645629883
227
228 69 loss: tensor(0.6137, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9264210122213549 auroc: 0.
    9412718686759115 ap: 0.9264210933736023
229 69 loss: tensor(0.6137, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9284743942459078 auroc: 0.
    9421391621903226 ap: 0.9284746045439523 time: 62.
    607670068740845
230
231 70 loss: tensor(0.6126, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9266107948697309 auroc: 0.
    9414838826317422 ap: 0.9266108005574754
232 70 loss: tensor(0.6126, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.928790368479925 auroc: 0.
    9424006338010494 ap: 0.9287906002782568 time: 60.
    685322523117065
233
234 71 loss: tensor(0.6113, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9268977821199968 auroc: 0.
    9417312792389726 ap: 0.926897852220613
235 71 loss: tensor(0.6113, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9290739584748908 auroc: 0.
    9426308082673607 ap: 0.929074184815188 time: 62.
    25370788574219
236
237 72 loss: tensor(0.6103, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9270687402638488 auroc: 0.
    9418921916983616 ap: 0.9270687508388612
238 72 loss: tensor(0.6103, device='cuda:0', grad_fn=<
    AddBackward0>) auprc: 0.9293349640804287 auroc: 0.
    9428421828512592 ap: 0.9293352043828578 time: 62.
    57301115989685
239
240 73 loss: tensor(0.6091, device='cuda:0', grad_fn=<
```

```
240 AddBackward0>) auprc: 0.9274360662560498 auroc: 0.  
9421062645366121 ap: 0.9274361497222136  
241 73 loss: tensor(0.6091, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9295863745209754 auroc: 0.  
9430502927069675 ap: 0.9295865998246654 time: 61.  
99841523170471  
242  
243 74 loss: tensor(0.6082, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9275869196984512 auroc: 0.  
9422477039878234 ap: 0.927587002388401  
244 74 loss: tensor(0.6082, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9298044850279422 auroc: 0.  
9432269396426467 ap: 0.9298047157147522 time: 61.  
5107479095459  
245  
246 75 loss: tensor(0.6068, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9278921296894961 auroc: 0.  
9425297821254182 ap: 0.9278922127373803  
247 75 loss: tensor(0.6068, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9300220622203762 auroc: 0.  
9434114704917528 ap: 0.930022284246365 time: 61.  
9055962562561  
248  
249 76 loss: tensor(0.6063, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9280155045039795 auroc: 0.  
9425945767012452 ap: 0.9280155458970186  
250 76 loss: tensor(0.6063, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9302098805329688 auroc: 0.  
9435669702207675 ap: 0.9302101152879453 time: 62.  
189213275909424  
251  
252 77 loss: tensor(0.6053, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9281676928845 auroc: 0.  
9427749885483273 ap: 0.9281677083952643  
253 77 loss: tensor(0.6053, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9303913143744218 auroc: 0.  
9437231089864652 ap: 0.930391547258969 time: 60.  
97889161109924  
254  
255 78 loss: tensor(0.6043, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9285083697340193 auroc: 0.  
9429548221904054 ap: 0.9285083935137265  
256 78 loss: tensor(0.6043, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9305435479268336 auroc: 0.  
943853998048068 ap: 0.9305437773436142 time: 61.  
118600368499756  
257  
258 79 loss: tensor(0.6038, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9285319460959248 auroc: 0.  
9430287147389129 ap: 0.9285319568927086  
259 79 loss: tensor(0.6038, device='cuda:0', grad_fn=<
```

```
259 AddBackward0>) auprc: 0.9306784662485392 auroc: 0.  
9439751664746684 ap: 0.9306786919185055 time: 62.  
17093825340271  
260  
261 80 loss: tensor(0.6031, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9286855652681456 auroc: 0.  
9431509287547565 ap: 0.9286855747599959  
262 80 loss: tensor(0.6031, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9307936030232469 auroc: 0.  
9440827742537095 ap: 0.9307938097977566 time: 59.  
004260301589966  
263  
264 81 loss: tensor(0.6025, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9287926028828856 auroc: 0.  
9432417055083939 ap: 0.9287926517695608  
265 81 loss: tensor(0.6025, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9308893347951518 auroc: 0.  
9441746336594413 ap: 0.9308895429031355 time: 62.  
938798666000366  
266  
267 82 loss: tensor(0.6019, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9288938534856352 auroc: 0.  
9433547773788544 ap: 0.9288939207312461  
268 82 loss: tensor(0.6019, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9309808257313728 auroc: 0.  
9442701274154816 ap: 0.9309810364427881 time: 62.  
58509135246277  
269  
270 83 loss: tensor(0.6012, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9290234963998635 auroc: 0.  
9434674640196167 ap: 0.9290235091463088  
271 83 loss: tensor(0.6012, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9310518246398358 auroc: 0.  
9443414525134806 ap: 0.9310520311638119 time: 62.  
29565215110779  
272  
273 84 loss: tensor(0.6014, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9289497905360776 auroc: 0.  
94344263292667 ap: 0.928949808014444  
274 84 loss: tensor(0.6014, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9311290192528635 auroc: 0.  
9444281467816363 ap: 0.9311291999619696 time: 61.  
61331653594971  
275  
276 85 loss: tensor(0.6012, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9288391610828265 auroc: 0.  
9434713954430818 ap: 0.9288391754325253  
277 85 loss: tensor(0.6012, device='cuda:0', grad_fn=<  
AddBackward0>) auprc: 0.9311851116211688 auroc: 0.  
944483654154471 ap: 0.9311852873695097 time: 62.  
38426995277405
```

```
278
279 86  loss: tensor(0.6005, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.929132438596305    auroc: 0.
    9436028719987883    ap: 0.9291324539796848
280 86  loss: tensor(0.6005, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9312528877496128    auroc: 0.
    9445616054222922    ap: 0.9312530737614833    time: 61.
    823810338974
281
282 87  loss: tensor(0.5996, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9293347991063825    auroc: 0.
    9437544135580977    ap: 0.9293348058300881
283 87  loss: tensor(0.5996, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9312976623062353    auroc: 0.
    9445997613339026    ap: 0.9312978452385675    time: 61.
    75153732299805
284
285 88  loss: tensor(0.6001, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9291558937039209    auroc: 0.
    9436523874606083    ap: 0.9291559035195674
286 88  loss: tensor(0.6001, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9313625547083211    auroc: 0.
    9446798934168965    ap: 0.9313627367994245    time: 61.
    081198930740356
287
288 89  loss: tensor(0.5999, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9291749084930259    auroc: 0.
    9436687834995302    ap: 0.9291749785230801
289 89  loss: tensor(0.5999, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.931394053641855    auroc: 0.
    9446951099564685    ap: 0.9313942389807839    time: 61.
    11722731590271
290
291 90  loss: tensor(0.5998, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9291590194680324    auroc: 0.
    9437549872896711    ap: 0.9291590989323238
292 90  loss: tensor(0.5998, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9314581122635547    auroc: 0.
    944781011433866    ap: 0.9314582900164895    time: 62.
    19053602218628
293
294 91  loss: tensor(0.5996, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9292211395653452    auroc: 0.
    9437545589567147    ap: 0.9292211605476748
295 91  loss: tensor(0.5996, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9314772915482193    auroc: 0.
    9447698326210383    ap: 0.9314774670256445    time: 62.
    93503665924072
296
297 92  loss: tensor(0.5994, device='cuda:0', grad_fn=<
    AddBackward0>)    auprc: 0.9293085690706643    auroc: 0.
```

```
297 9438451711381382    ap: 0.9293085784075649
298 92    loss: tensor(0.5994, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9315441920586667    auroc: 0.
9448671766486423    ap: 0.9315443750978569    time: 61.
74431252479553
299
300 93    loss: tensor(0.5985, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9294706169790637    auroc: 0.
9439576183523796    ap: 0.9294706371441401
301 93    loss: tensor(0.5985, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.931564166677508    auroc: 0.
9448574041556392    ap: 0.9315643456596434    time: 62.
195045709609985
302
303 94    loss: tensor(0.5980, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9295564791012251    auroc: 0.
9440156872731588    ap: 0.9295564877097365
304 94    loss: tensor(0.5980, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9316136919563848    auroc: 0.
9449251034188102    ap: 0.9316138659949292    time: 61.
130247831344604
305
306 95    loss: tensor(0.5976, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9295760215416592    auroc: 0.
9440783200292919    ap: 0.9295760375524982
307 95    loss: tensor(0.5976, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9316440620057762    auroc: 0.
9449579938741963    ap: 0.9316442265748569    time: 61.
51972794532776
308
309 96    loss: tensor(0.5983, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9294033192269533    auroc: 0.
9439565691714787    ap: 0.9294033383818701
310 96    loss: tensor(0.5983, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9316599067075519    auroc: 0.
9449613573017976    ap: 0.931660073622091    time: 61.
04310488700867
311
312 97    loss: tensor(0.5978, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9295756374929488    auroc: 0.
9441040380792505    ap: 0.9295756737634412
313 97    loss: tensor(0.5978, device='cuda:0', grad_fn=<
AddBackward0>)    auprc: 0.9316968289133447    auroc: 0.
9450313226436456    ap: 0.9316969950612416    time: 61.
07869005203247
314
315
316 Process finished with exit code -1
317
```