

```

1 ssh://sangsq@10.50.221.195:22/home/sangsq/anaconda3/bin/python -u /home/sangsq/flower
  /PSEP/model/hhh.py
2 loading data
3 remove 0 isolated drugs: []
4 remove finished
5 963 polypharmacy side effects
6 data has been loaded
7 cuda
8 model training ...
9 0 loss:1.3877 auprc:0.4964 auroc:0.5004 ap@50:0.4970
10 0 loss:1.3877 auprc:0.4989 auroc:0.5011 ap@50:0.5028 time:124.5
11
12 1 loss:1.3864 auprc:0.4948 auroc:0.5027 ap@50:0.4954
13 1 loss:1.3864 auprc:0.4973 auroc:0.5031 ap@50:0.5012 time:124.6
14
15 2 loss:1.3860 auprc:0.4933 auroc:0.5069 ap@50:0.4938
16 2 loss:1.3860 auprc:0.4960 auroc:0.5080 ap@50:0.4999 time:121.7
17
18 3 loss:1.3849 auprc:0.5061 auroc:0.5211 ap@50:0.5066
19 3 loss:1.3849 auprc:0.5064 auroc:0.5226 ap@50:0.5101 time:122.8
20
21 4 loss:1.3824 auprc:0.5347 auroc:0.5428 ap@50:0.5351
22 4 loss:1.3824 auprc:0.5303 auroc:0.5445 ap@50:0.5337 time:122.4
23
24 5 loss:1.3774 auprc:0.5670 auroc:0.5666 ap@50:0.5674
25 5 loss:1.3774 auprc:0.5580 auroc:0.5682 ap@50:0.5611 time:123.3
26
27 6 loss:1.3687 auprc:0.5985 auroc:0.5926 ap@50:0.5989
28 6 loss:1.3687 auprc:0.5857 auroc:0.5935 ap@50:0.5885 time:121.8
29
30 7 loss:1.3551 auprc:0.6269 auroc:0.6206 ap@50:0.6273
31 7 loss:1.3551 auprc:0.6108 auroc:0.6203 ap@50:0.6136 time:122.6
32
33 8 loss:1.3350 auprc:0.6488 auroc:0.6495 ap@50:0.6492
34 8 loss:1.3350 auprc:0.6286 auroc:0.6465 ap@50:0.6314 time:122.4
35
36 9 loss:1.3062 auprc:0.6620 auroc:0.6764 ap@50:0.6624
37 9 loss:1.3062 auprc:0.6382 auroc:0.6696 ap@50:0.6412 time:124.1
38
39 10 loss:1.2687 auprc:0.6702 auroc:0.7000 ap@50:0.6706
40 10 loss:1.2687 auprc:0.6438 auroc:0.6890 ap@50:0.6469 time:122.3
41
42 11 loss:1.2243 auprc:0.6831 auroc:0.7239 ap@50:0.6835
43 11 loss:1.2243 auprc:0.6525 auroc:0.7073 ap@50:0.6557 time:122.4
44
45 12 loss:1.1767 auprc:0.7074 auroc:0.7517 ap@50:0.7078
46 12 loss:1.1767 auprc:0.6718 auroc:0.7290 ap@50:0.6748 time:123.3
47
48 13 loss:1.1240 auprc:0.7356 auroc:0.7786 ap@50:0.7360
49 13 loss:1.1240 auprc:0.6954 auroc:0.7513 ap@50:0.6983 time:124.4
50
51 14 loss:1.0626 auprc:0.7714 auroc:0.8084 ap@50:0.7717
52 14 loss:1.0626 auprc:0.7278 auroc:0.7784 ap@50:0.7303 time:123.9
53
54 15 loss:1.0029 auprc:0.7988 auroc:0.8316 ap@50:0.7991
55 15 loss:1.0029 auprc:0.7531 auroc:0.7991 ap@50:0.7554 time:123.2
56
57 16 loss:0.9498 auprc:0.8258 auroc:0.8539 ap@50:0.8261
58 16 loss:0.9498 auprc:0.7776 auroc:0.8193 ap@50:0.7797 time:122.6
59
60 17 loss:0.9027 auprc:0.8455 auroc:0.8710 ap@50:0.8458
61 17 loss:0.9027 auprc:0.7957 auroc:0.8352 ap@50:0.7976 time:124.6

```

62						
63	18	loss:0.8597	auprc:0.8626	euroc:0.8874	ap@50:0.8628	
64	18	loss:0.8597	auprc:0.8116	euroc:0.8499	ap@50:0.8134	time:122.6
65						
66	19	loss:0.8222	auprc:0.8709	euroc:0.8967	ap@50:0.8711	
67	19	loss:0.8222	auprc:0.8183	euroc:0.8567	ap@50:0.8200	time:122.0
68						
69	20	loss:0.7921	auprc:0.8880	euroc:0.9134	ap@50:0.8881	
70	20	loss:0.7921	auprc:0.8326	euroc:0.8709	ap@50:0.8342	time:122.5
71						
72	21	loss:0.7537	auprc:0.8915	euroc:0.9175	ap@50:0.8916	
73	21	loss:0.7537	auprc:0.8337	euroc:0.8731	ap@50:0.8353	time:123.0
74						
75	22	loss:0.7288	auprc:0.8986	euroc:0.9244	ap@50:0.8988	
76	22	loss:0.7288	auprc:0.8392	euroc:0.8784	ap@50:0.8407	time:122.6
77						
78	23	loss:0.7063	auprc:0.9107	euroc:0.9340	ap@50:0.9108	
79	23	loss:0.7063	auprc:0.8493	euroc:0.8866	ap@50:0.8508	time:122.0
80						
81	24	loss:0.6831	auprc:0.9151	euroc:0.9374	ap@50:0.9153	
82	24	loss:0.6831	auprc:0.8530	euroc:0.8894	ap@50:0.8544	time:121.5
83						
84	25	loss:0.6712	auprc:0.9173	euroc:0.9389	ap@50:0.9175	
85	25	loss:0.6712	auprc:0.8549	euroc:0.8908	ap@50:0.8563	time:122.8
86						
87	26	loss:0.6514	auprc:0.9237	euroc:0.9433	ap@50:0.9238	
88	26	loss:0.6514	auprc:0.8608	euroc:0.8949	ap@50:0.8621	time:122.4
89						
90	27	loss:0.6435	auprc:0.9280	euroc:0.9461	ap@50:0.9281	
91	27	loss:0.6435	auprc:0.8652	euroc:0.8978	ap@50:0.8664	time:122.3
92						
93	28	loss:0.6305	auprc:0.9299	euroc:0.9473	ap@50:0.9300	
94	28	loss:0.6305	auprc:0.8666	euroc:0.8987	ap@50:0.8678	time:121.8
95						
96	29	loss:0.6247	auprc:0.9322	euroc:0.9487	ap@50:0.9323	
97	29	loss:0.6247	auprc:0.8687	euroc:0.9000	ap@50:0.8698	time:123.4
98						
99	30	loss:0.6164	auprc:0.9350	euroc:0.9505	ap@50:0.9350	
100	30	loss:0.6164	auprc:0.8719	euroc:0.9020	ap@50:0.8730	time:122.3
101						
102	31	loss:0.6120	auprc:0.9370	euroc:0.9517	ap@50:0.9371	
103	31	loss:0.6120	auprc:0.8734	euroc:0.9030	ap@50:0.8745	time:122.5
104						
105	32	loss:0.6064	auprc:0.9374	euroc:0.9520	ap@50:0.9375	
106	32	loss:0.6064	auprc:0.8736	euroc:0.9031	ap@50:0.8746	time:121.2
107						
108	33	loss:0.6026	auprc:0.9382	euroc:0.9525	ap@50:0.9383	
109	33	loss:0.6026	auprc:0.8741	euroc:0.9035	ap@50:0.8752	time:123.7
110						
111	34	loss:0.5996	auprc:0.9392	euroc:0.9532	ap@50:0.9393	
112	34	loss:0.5996	auprc:0.8752	euroc:0.9043	ap@50:0.8762	time:123.2
113						
114	35	loss:0.5967	auprc:0.9398	euroc:0.9535	ap@50:0.9398	
115	35	loss:0.5967	auprc:0.8756	euroc:0.9045	ap@50:0.8766	time:122.1
116						
117	36	loss:0.5953	auprc:0.9398	euroc:0.9536	ap@50:0.9399	
118	36	loss:0.5953	auprc:0.8756	euroc:0.9045	ap@50:0.8765	time:124.8
119						
120	37	loss:0.5924	auprc:0.9403	euroc:0.9540	ap@50:0.9404	
121	37	loss:0.5924	auprc:0.8765	euroc:0.9050	ap@50:0.8774	time:122.4
122						
123	38	loss:0.5912	auprc:0.9416	euroc:0.9546	ap@50:0.9416	

124	38	loss:0.5912	auprc:0.8776	euroc:0.9056	ap@50:0.8785	time:121.9
125						
126	39	loss:0.5884	auprc:0.9416	euroc:0.9546	ap@50:0.9416	
127	39	loss:0.5884	auprc:0.8779	euroc:0.9058	ap@50:0.8788	time:123.3
128						
129	40	loss:0.5887	auprc:0.9416	euroc:0.9546	ap@50:0.9416	
130	40	loss:0.5887	auprc:0.8779	euroc:0.9058	ap@50:0.8788	time:122.0
131						
132	41	loss:0.5858	auprc:0.9422	euroc:0.9551	ap@50:0.9423	
133	41	loss:0.5858	auprc:0.8787	euroc:0.9063	ap@50:0.8796	time:123.1
134						
135	42	loss:0.5859	auprc:0.9426	euroc:0.9553	ap@50:0.9427	
136	42	loss:0.5859	auprc:0.8794	euroc:0.9067	ap@50:0.8802	time:123.1
137						
138	43	loss:0.5834	auprc:0.9427	euroc:0.9553	ap@50:0.9427	
139	43	loss:0.5834	auprc:0.8794	euroc:0.9067	ap@50:0.8802	time:122.7
140						
141	44	loss:0.5829	auprc:0.9430	euroc:0.9555	ap@50:0.9431	
142	44	loss:0.5829	auprc:0.8796	euroc:0.9068	ap@50:0.8805	time:123.4
143						
144	45	loss:0.5826	auprc:0.9430	euroc:0.9555	ap@50:0.9431	
145	45	loss:0.5826	auprc:0.8802	euroc:0.9071	ap@50:0.8810	time:123.5
146						
147	46	loss:0.5815	auprc:0.9430	euroc:0.9556	ap@50:0.9431	
148	46	loss:0.5815	auprc:0.8801	euroc:0.9071	ap@50:0.8810	time:122.4
149						
150	47	loss:0.5809	auprc:0.9432	euroc:0.9557	ap@50:0.9432	
151	47	loss:0.5809	auprc:0.8798	euroc:0.9070	ap@50:0.8807	time:122.2
152						
153	48	loss:0.5799	auprc:0.9433	euroc:0.9558	ap@50:0.9434	
154	48	loss:0.5799	auprc:0.8799	euroc:0.9071	ap@50:0.8808	time:122.3
155						
156	49	loss:0.5793	auprc:0.9435	euroc:0.9559	ap@50:0.9435	
157	49	loss:0.5793	auprc:0.8802	euroc:0.9073	ap@50:0.8810	time:123.3
158						
159	50	loss:0.5791	auprc:0.9433	euroc:0.9558	ap@50:0.9434	
160	50	loss:0.5791	auprc:0.8798	euroc:0.9071	ap@50:0.8807	time:121.6
161						
162	51	loss:0.5784	auprc:0.9435	euroc:0.9559	ap@50:0.9435	
163	51	loss:0.5784	auprc:0.8799	euroc:0.9072	ap@50:0.8808	time:122.0
164						
165	52	loss:0.5785	auprc:0.9436	euroc:0.9560	ap@50:0.9436	
166	52	loss:0.5785	auprc:0.8801	euroc:0.9073	ap@50:0.8810	time:123.8
167						
168	53	loss:0.5772	auprc:0.9435	euroc:0.9559	ap@50:0.9436	
169	53	loss:0.5772	auprc:0.8798	euroc:0.9072	ap@50:0.8807	time:122.8
170						
171	54	loss:0.5767	auprc:0.9436	euroc:0.9560	ap@50:0.9437	
172	54	loss:0.5767	auprc:0.8797	euroc:0.9072	ap@50:0.8806	time:122.7
173						
174	55	loss:0.5768	auprc:0.9436	euroc:0.9560	ap@50:0.9437	
175	55	loss:0.5768	auprc:0.8801	euroc:0.9074	ap@50:0.8810	time:121.6
176						
177	56	loss:0.5764	auprc:0.9436	euroc:0.9560	ap@50:0.9436	
178	56	loss:0.5764	auprc:0.8800	euroc:0.9073	ap@50:0.8809	time:121.5
179						
180	57	loss:0.5761	auprc:0.9436	euroc:0.9560	ap@50:0.9436	
181	57	loss:0.5761	auprc:0.8800	euroc:0.9073	ap@50:0.8809	time:124.6
182						
183	58	loss:0.5759	auprc:0.9438	euroc:0.9561	ap@50:0.9439	
184	58	loss:0.5759	auprc:0.8803	euroc:0.9074	ap@50:0.8812	time:121.9
185						

186	59	loss:0.5757	auprc:0.9437	euroc:0.9560	ap@50:0.9437	
187	59	loss:0.5757	auprc:0.8801	euroc:0.9074	ap@50:0.8810	time:121.4
188						
189	60	loss:0.5750	auprc:0.9437	euroc:0.9561	ap@50:0.9438	
190	60	loss:0.5750	auprc:0.8802	euroc:0.9074	ap@50:0.8811	time:122.5
191						
192	61	loss:0.5749	auprc:0.9438	euroc:0.9562	ap@50:0.9439	
193	61	loss:0.5749	auprc:0.8805	euroc:0.9076	ap@50:0.8814	time:122.2
194						
195	62	loss:0.5750	auprc:0.9435	euroc:0.9560	ap@50:0.9436	
196	62	loss:0.5750	auprc:0.8802	euroc:0.9075	ap@50:0.8811	time:122.3
197						
198	63	loss:0.5749	auprc:0.9439	euroc:0.9562	ap@50:0.9439	
199	63	loss:0.5749	auprc:0.8805	euroc:0.9076	ap@50:0.8814	time:122.1
200						
201	64	loss:0.5744	auprc:0.9438	euroc:0.9561	ap@50:0.9439	
202	64	loss:0.5744	auprc:0.8804	euroc:0.9076	ap@50:0.8813	time:121.9
203						
204	65	loss:0.5739	auprc:0.9438	euroc:0.9562	ap@50:0.9438	
205	65	loss:0.5739	auprc:0.8802	euroc:0.9076	ap@50:0.8812	time:122.9
206						
207	66	loss:0.5746	auprc:0.9436	euroc:0.9561	ap@50:0.9436	
208	66	loss:0.5746	auprc:0.8806	euroc:0.9077	ap@50:0.8815	time:121.3
209						
210	67	loss:0.5738	auprc:0.9437	euroc:0.9562	ap@50:0.9438	
211	67	loss:0.5738	auprc:0.8803	euroc:0.9076	ap@50:0.8812	time:123.5
212						
213	68	loss:0.5732	auprc:0.9438	euroc:0.9563	ap@50:0.9439	
214	68	loss:0.5732	auprc:0.8805	euroc:0.9077	ap@50:0.8814	time:121.9
215						
216	69	loss:0.5730	auprc:0.9439	euroc:0.9563	ap@50:0.9440	
217	69	loss:0.5730	auprc:0.8804	euroc:0.9077	ap@50:0.8813	time:123.0
218						
219	70	loss:0.5728	auprc:0.9439	euroc:0.9563	ap@50:0.9439	
220	70	loss:0.5728	auprc:0.8805	euroc:0.9077	ap@50:0.8814	time:122.6
221						
222	71	loss:0.5728	auprc:0.9437	euroc:0.9563	ap@50:0.9438	
223	71	loss:0.5728	auprc:0.8805	euroc:0.9078	ap@50:0.8815	time:121.8
224						
225	72	loss:0.5727	auprc:0.9438	euroc:0.9563	ap@50:0.9439	
226	72	loss:0.5727	auprc:0.8805	euroc:0.9078	ap@50:0.8814	time:123.4
227						
228	73	loss:0.5728	auprc:0.9440	euroc:0.9563	ap@50:0.9440	
229	73	loss:0.5728	auprc:0.8808	euroc:0.9079	ap@50:0.8817	time:124.1
230						
231	74	loss:0.5731	auprc:0.9438	euroc:0.9562	ap@50:0.9439	
232	74	loss:0.5731	auprc:0.8805	euroc:0.9078	ap@50:0.8815	time:122.0
233						
234	75	loss:0.5730	auprc:0.9442	euroc:0.9564	ap@50:0.9442	
235	75	loss:0.5730	auprc:0.8811	euroc:0.9080	ap@50:0.8820	time:121.3
236						
237	76	loss:0.5749	auprc:0.9437	euroc:0.9562	ap@50:0.9437	
238	76	loss:0.5749	auprc:0.8802	euroc:0.9077	ap@50:0.8812	time:122.6
239						
240	77	loss:0.5800	auprc:0.9442	euroc:0.9565	ap@50:0.9442	
241	77	loss:0.5800	auprc:0.8817	euroc:0.9082	ap@50:0.8825	time:123.0
242						
243	78	loss:0.5848	auprc:0.9435	euroc:0.9560	ap@50:0.9435	
244	78	loss:0.5848	auprc:0.8793	euroc:0.9073	ap@50:0.8803	time:121.9
245						
246	79	loss:0.5797	auprc:0.9445	euroc:0.9566	ap@50:0.9445	
247	79	loss:0.5797	auprc:0.8815	euroc:0.9082	ap@50:0.8824	time:121.8

248						
249	80	loss:0.5718	auprc:0.9440	euroc:0.9564	ap@50:0.9440	
250	80	loss:0.5718	auprc:0.8807	euroc:0.9079	ap@50:0.8816	time:123.9
251						
252	81	loss:0.5785	auprc:0.9434	euroc:0.9561	ap@50:0.9434	
253	81	loss:0.5785	auprc:0.8797	euroc:0.9075	ap@50:0.8807	time:124.4
254						
255	82	loss:0.5766	auprc:0.9445	euroc:0.9566	ap@50:0.9446	
256	82	loss:0.5766	auprc:0.8814	euroc:0.9082	ap@50:0.8823	time:122.6
257						
258	83	loss:0.5716	auprc:0.9443	euroc:0.9565	ap@50:0.9443	
259	83	loss:0.5716	auprc:0.8809	euroc:0.9081	ap@50:0.8818	time:122.1
260						
261	84	loss:0.5775	auprc:0.9433	euroc:0.9560	ap@50:0.9434	
262	84	loss:0.5775	auprc:0.8797	euroc:0.9076	ap@50:0.8807	time:122.7
263						
264	85	loss:0.5726	auprc:0.9443	euroc:0.9565	ap@50:0.9443	
265	85	loss:0.5726	auprc:0.8810	euroc:0.9081	ap@50:0.8819	time:124.0
266						
267	86	loss:0.5737	auprc:0.9444	euroc:0.9566	ap@50:0.9444	
268	86	loss:0.5737	auprc:0.8812	euroc:0.9082	ap@50:0.8822	time:121.3
269						
270	87	loss:0.5736	auprc:0.9439	euroc:0.9564	ap@50:0.9440	
271	87	loss:0.5736	auprc:0.8802	euroc:0.9078	ap@50:0.8811	time:123.2
272						
273	88	loss:0.5715	auprc:0.9441	euroc:0.9565	ap@50:0.9442	
274	88	loss:0.5715	auprc:0.8807	euroc:0.9080	ap@50:0.8816	time:123.4
275						
276	89	loss:0.5744	auprc:0.9442	euroc:0.9565	ap@50:0.9443	
277	89	loss:0.5744	auprc:0.8816	euroc:0.9084	ap@50:0.8825	time:123.8
278						
279	90	loss:0.5713	auprc:0.9439	euroc:0.9564	ap@50:0.9440	
280	90	loss:0.5713	auprc:0.8809	euroc:0.9081	ap@50:0.8818	time:122.0
281						
282	91	loss:0.5730	auprc:0.9437	euroc:0.9563	ap@50:0.9438	
283	91	loss:0.5730	auprc:0.8804	euroc:0.9080	ap@50:0.8813	time:120.7
284						
285	92	loss:0.5714	auprc:0.9444	euroc:0.9566	ap@50:0.9444	
286	92	loss:0.5714	auprc:0.8813	euroc:0.9083	ap@50:0.8822	time:121.4
287						
288	93	loss:0.5712	auprc:0.9445	euroc:0.9567	ap@50:0.9446	
289	93	loss:0.5712	auprc:0.8814	euroc:0.9084	ap@50:0.8824	time:122.6
290						
291	94	loss:0.5714	auprc:0.9439	euroc:0.9565	ap@50:0.9440	
292	94	loss:0.5714	auprc:0.8808	euroc:0.9082	ap@50:0.8818	time:121.8
293						
294	95	loss:0.5696	auprc:0.9443	euroc:0.9567	ap@50:0.9443	
295	95	loss:0.5696	auprc:0.8812	euroc:0.9084	ap@50:0.8821	time:121.0
296						
297	96	loss:0.5713	auprc:0.9446	euroc:0.9568	ap@50:0.9447	
298	96	loss:0.5713	auprc:0.8818	euroc:0.9086	ap@50:0.8827	time:124.2
299						
300	97	loss:0.5693	auprc:0.9445	euroc:0.9568	ap@50:0.9445	
301	97	loss:0.5693	auprc:0.8814	euroc:0.9085	ap@50:0.8824	time:123.0
302						
303	98	loss:0.5701	auprc:0.9444	euroc:0.9567	ap@50:0.9445	
304	98	loss:0.5701	auprc:0.8811	euroc:0.9084	ap@50:0.8820	time:122.0
305						
306	99	loss:0.5694	auprc:0.9445	euroc:0.9568	ap@50:0.9445	
307	99	loss:0.5694	auprc:0.8818	euroc:0.9087	ap@50:0.8827	time:121.7
308						
309		File: /home/sangsq/flower/PSEP/model/hhh.py				

```

310 Function: train at line 190
311
312 Line # Max usage Peak usage diff max diff peak Line Contents
313 =====
314     190                                     @profile
315     191                                     def train():
316     192     345.21M      520.00M   59.62M  210.00M      model.train()
317     193
318     194     345.21M      520.00M   0.00B    0.00B      optimizer.zero_grad()
319     195     1.33G       5.29G  1013.39M   4.78G      z = model.encoder(data.d_feat,
320   data.dd_train_idx, data.dd_train_et, data.dd_train_range, data.d_norm, data.p_feat,
321   data.pp_train_indices, data.dp_edge_index, data.dp_range_list)
320     196
321     197     1.33G       1.49G   0.00B   -3.80G      pos_index = data.dd_train_idx
322     198     1.45G       1.68G  126.00M  190.00M      neg_index = negative_sampling(
323   data.dd_train_idx, data.n_drug).to(device)
323     199
324     200     1.48G       3.09G   31.42M   1.41G      pos_score = checkpoint(model.
325   decoder, z, pos_index, data.dd_train_et)
325     201     1.51G       3.09G   31.42M   0.00B      neg_score = checkpoint(model.
326   decoder, z, neg_index, data.dd_train_et)
326     202
327     203                                     # pos_loss = F.
328   binary_cross_entropy(pos_score, torch.ones(pos_score.shape[0]).cuda())
328     204                                     # neg_loss = F.
329   binary_cross_entropy(neg_score, torch.ones(neg_score.shape[0]).cuda())
329     205     1.54G       1.64G   31.42M  -1.45G      pos_loss = -torch.log(pos_score
330   + EPS).mean()
330     206     1.57G       1.68G   32.00M   32.00M      neg_loss = -torch.log(1 -
331   neg_score + EPS).mean()
331     207     1.57G       1.64G   512.00B  -32.00M      loss = pos_loss + neg_loss
332     208                                     # loss = pos_loss
333     209
334     210     534.10M      9.47G   -1.05G   7.83G      loss.backward()
335     211     534.10M      646.00M   0.00B   -8.84G      optimizer.step()
336     212
337     213     534.10M      646.00M   0.00B   0.00B      record = np.zeros((3, data.
338   n_dd_et)) # auprc, auroc, ap
338     214     534.49M      646.00M  401.50K   0.00B      for i in range(data.
339   dd_train_range.shape[0]):
339     215     534.49M      646.00M   0.00B   0.00B      [start, end] = data.
340   dd_train_range[i]
340     216     534.49M      646.00M   0.00B   0.00B      p_s = pos_score[start: end]
341     217     534.49M      646.00M   0.00B   0.00B      n_s = neg_score[start: end]
342     218
343     219     534.49M      646.00M   0.00B   0.00B      pos_target = torch.ones(p_s
344   .shape[0])
344     220     534.49M      646.00M   0.00B   0.00B      neg_target = torch.zeros(
345   n_s.shape[0])
345     221
346     222     534.49M      646.00M   0.00B   0.00B      score = torch.cat([p_s, n_s
347   ])
347     223     534.49M      646.00M   0.00B   0.00B      target = torch.cat([
348   pos_target, neg_target])
348     224
349     225     534.49M      646.00M   0.00B   0.00B      record[0, i], record[1, i
350   ], record[2, i] = auprc_auroc_ap(target,
351   226     534.49M      646.00M   0.00B   0.00B      score)
352     227
352     228     534.11M      646.00M -394.00K   0.00B      train_record[epoch] = record
353     229     534.11M      646.00M   0.00B   0.00B      [auprc, auroc, ap] = record.sum

```

File - hhh

```
353 (axis=1) / data.n_dd_et
354    230    534.11M    646.00M    0.00B    0.00B    train_out[epoch] = [auprc,
  auroc, ap]
355    231
356    232    534.11M    646.00M    0.00B    0.00B    print('{:3d}    loss:{:.4f}
  auprc:{:.4f}    auroc:{:.4f}    ap@50:{:.4f}')
357    233    534.11M    646.00M    0.00B    0.00B    .format(epoch, loss,
  tolist(), auprc, auroc, ap))
358    234    345.21M    924.00M   -188.90M   278.00M
359    235    534.11M    646.00M    0.00B    0.00B    return z, loss
360
361
362 Process finished with exit code 0
363
```