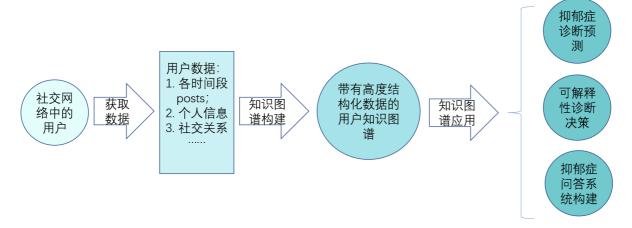
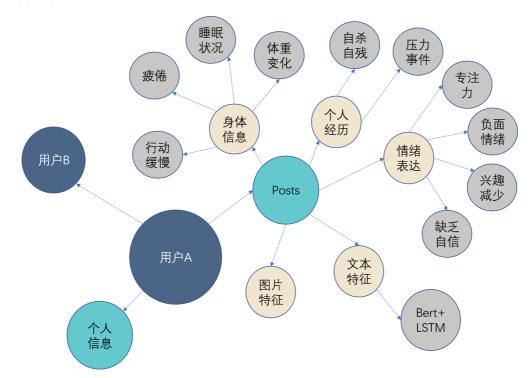
一、项目方案

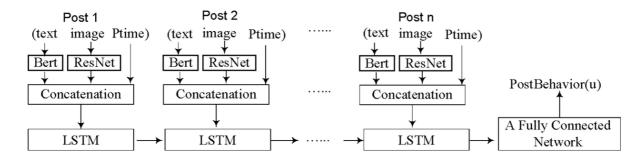
项目流程:



知识图谱结构:



文本特征模型抽取方法:



二、项目结果

知识图谱构建(D:抑郁症患者, C: 普通用户, A: 全体用户):

类别	症状	词数	平均词 频D	平均 词频C	平均 词频A	平均 得分D	平均 得分C	平均 得分A
身体 信息	unenergetic	45	21.18	5.35	6.57	10.76	2.56	3.19
身体 信息	slow- moving	49	33.46	12.06	13.71	23.77	8.74	9.89
身体信息	restless	41	16.38	5.03	5.9	7.07	2.24	2.61
身体信息	sleepy	25	25.17	8.97	10.21	13.59	5.26	5.59
身体信息	tired	39	44.41	11.85	14.36	25.92	6.61	8.09
个人 经历	suicide	7	3.53	0.47	0.71	3.52	0.46	0.71
个人 经历	stressful	36	47.62	13.18	15.84	26.86	7.09	8.61
情绪 表达	distracted	9	1.89	0.31	0.43	1.49	0.25	0.34
情绪 表达	interested	41	104.21	30.08	35.79	61.14	18.71	21.98
情绪 表达	negative	100	4.44	2.21	2.38	4.44	2.21	2.38
情绪 表达	unconfident	18	12.11	2.18	2.94	7.93	1.4	1.91

训练结果:

Con:Dep(train)	Con:Dep(val)	Feature Dim	Predictor	ACC	F1 Score	Recall	Precision	AUC
10:1	10:1	8	attention+CNN	0.9247	0.9125	0.7023	0.6873	0.6894
1:1	10:1	8	attention+CNN	0.85	0.87 / 0.71	0.85 / 0.65	0.90 / 0.73	0.7939
1:1	1:1	8	attention+CNN	0.75	0.76	0.77	0.76	0.7782
1:1	1:1	12	attention+CNN	0.78	0.78	0.78	0.78	0.7931
1:1	1:1	44	attention+CNN	0.78	0.77	0.78	0.77	0.7864
10:1	10:1	44	attention+CNN	0.87	0.89/0.68	0.87/0.77	0.92/0.65	0.8100

解释性预测:

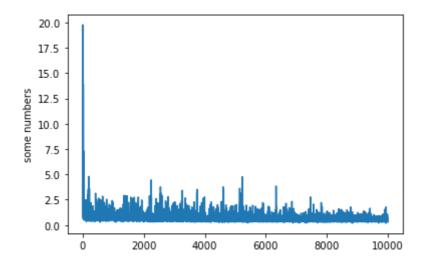
针对每一项图谱中的内容设定0,1,2,3三个指标表示程度

```
The user has a 79.35487032 % chance of suffering from depression
II can be inferred from the performance of the user's Post that the symptoms that may be included are:
symptom
degree
unenergetic
3
slow-moving
0
restless
0
slower
strices
1
stressif
2
stressif
1
stressif
2
stressif
2
stressif
3
str
```

```
The user has a 180.0 % chance of suffering from depression
It can be inferred from the performance of the user's Post that the symptoms that may be included are:
symptom degree
unenergetic 3
slow-moving 3
restless 3
sleepy 3
tired 3
suicide 1
stressful 3
strest 3
streed 3
suicide 1
stressful 3
distracted 3
interested 1
interested 3
interested 3
interested 1
interested 3
interested 1
interested 3
interested 3
interested 3
interested 3
interested 1
interested 3
intereste
```

训练图:

LOSS:



Performance:

