

- IDH

- 超参

- Batch: 2
 - lr: 1e-5
 - Adam.weight_decay=3e-4

- train&&test

- fold1

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.407586	0.839196	0.840708	0.837209	0.871560	0.800000	0.838959
Test	0.466795	0.836735	0.766667	0.947368	0.958333	0.720000	0.857018

- fold2

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.405435	0.859296	0.867257	0.848837	0.882883	0.829545	0.858047
Test	0.487208	0.795918	0.800000	0.947368	0.958333	0.714286	0.857018

- fold3

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.398734	0.874372	0.876106	0.872093	0.900000	0.842697	0.874100
Test	0.613697	0.775510	0.766667	0.789474	0.851852	0.681818	0.778070

- fold4 | epoch | Loss | ACC | SN | SP | PPV | NPV | AUC | | :----- | :----- | :----- | :----- | :-----
| :----- | :----- | :----- |
|Train|0.269791|0.919598|0.923729|0.913589|0.939655|0.891566|0.918655|
|Test|0.455463|0.857143|0.750000|0.960000|0.947368|0.800000|0.855000|

- fold5

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.101878	0.984925	0.991071	0.977011	0.982301	0.988372	0.984041
Test	0.779046	0.897959	0.916667	0.880000	0.880000	0.916667	0.898333

5折平均结果

epoch	ACC	SN	SP	PPV	NPV	AUC
Train	0.895477	0.899774	0.889748	0.915280	0.870436	0.894760
Test	0.832653	0.800000	0.904842	0.919177	0.766554	0.849088

- LGG&&GBM

- 超参

- Batch: 2
 - lr: 1e-5
 - Adam.weight_decay=3e-4

- train&&test

- fold1

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.066111	0.984043	0.976190	0.990385	0.987952	0.980952	0.983288
Test	0.446400	0.914894	0.857143	0.961538	0.947368	0.892857	0.909341

- fold2

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.203756	0.920213	0.905882	0.932039	0.916667	0.923077	0.918961
Test	0.358310	0.893617	0.863636	0.920000	0.904762	0.884615	0.891818

- fold3

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.216519	0.936170	0.966292	0.909091	0.905263	0.967742	0.937692
Test	0.494623	0.914894	0.950000	0.888889	0.863636	0.960000	0.919444

- fold4 | epoch | Loss | ACC | SN | SP | PPV | NPV | AUC | | :----- | :----- | :----- | :----- | :----- | :----- | :----- | :----- |
 - | Train|0.260044|0.909574|0.921348|0.898990|0.891304|0.927083|0.910169|
 - | Test|0.274200|0.936170|0.950000|0.925926|0.904762|0.961538|0.937963|

- fold5

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.098261	0.973404	0.967391	0.979167	0.978022	0.969072	0.973279
Test	0.477682	0.914894	0.956522	0.875000	0.880000	0.954545	0.915761

5折平均结果

epoch	ACC	SN	SP	PPV	NPV	AUC
Train	0.944681	0.947421	0.941934	0.935842	0.953585	0.944678
Test	0.914894	0.915460	0.914271	0.900106	0.930711	0.914865

- HGG&&LGG

- 超参

- Batch: 2
 - lr: 1e-5
 - Adam.weight_decay=3e-4

- train&&test

- fold1

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.270730	0.904348	0.870588	0.924138	0.870588	0.924138	0.897363
Test	0.359716	0.859649	0.944444	0.820513	0.708333	0.969697	0.882479

- fold2

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.176434	0.956522	0.920455	0.978873	0.964286	0.952055	0.949664
Test	0.462911	0.912281	0.952381	0.888889	0.833333	0.969697	0.920635

- fold3

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.271616	0.886957	0.835294	0.917241	0.855422	0.904762	0.876268
Test	0.519134	0.877193	0.842105	0.894737	0.800000	0.918919	0.868421

- fold4

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.340885	0.852174	0.802326	0.881944	0.802326	0.881944	0.842135
Test	0.453603	0.771930	0.900000	0.702703	0.620690	0.928571	0.801351

- fold5 | epoch | Loss | ACC | SN | SP | PPV | NPV | AUC | | :----- | :----- | :----- | :----- | :-----
| :----- | :----- | :----- |
|Train|0.303809|0.873913|0.823529|0.903448|0.833333|0.897260|0.863489|
|Test|0.423455|0.842105|0.789474|0.868421|0.750000|0.891892|0.828947|

5折平均结果

epoch	ACC	SN	SP	PPV	NPV	AUC
Train	0.894783	0.850438	0.921129	0.865191	0.912032	0.885784
Test	0.852632	0.885681	0.835053	0.742471	0.935755	0.860367

- AG&&GBM

- 超参

- Batch: 2
 - lr: 1e-4
 - dropout=0.2
 - Adam.weight_decay=3e-4

- train&&test

- fold1

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.514994	0.777778	0.858491	0.552632	0.842593	0.583333	0.705561
Test	0.524122	0.805556	0.814815	0.777778	0.916667	0.583333	0.796296

- fold2

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.466264	0.784722	0.879630	0.268293	0.500000	0.840708	0.689815
Test	0.572299	0.694444	0.666667	0.666667	0.777778	0.900000	0.722222

- fold3

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.508489	0.833333	0.932039	0.585366	0.849558	0.774194	0.758702
Test	0.499192	0.833333	0.956522	0.615385	0.814815	0.888889	0.785953

- fold4

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.530673	0.750000	0.828283	0.577778	0.811881	0.604651	0.703030
Test	0.558419	0.805556	0.920000	0.545455	0.821429	0.750000	0.732727

- fold5

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.390288	0.805556	0.884615	0.600000	0.851852	0.666667	0.742308
Test	0.513451	0.777778	0.875000	0.583333	0.807692	0.700000	0.729167

5折平均结果

epoch	ACC	SN	SP	PPV	NPV	AUC
Train	0.790278	0.876612	0.516814	0.771177	0.693911	0.719883
Test	0.793333	0.846601	0.637724	0.827676	0.764444	0.753273

- Ki67

- 超参

- Batch: 2
 - lr: 3e-4
 - dropout=0.2
 - Adam.weight_decay=3e-4

- train&&test

- fold1

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.569176	0.775510	0.805825	0.741935	0.775701	0.775281	0.773880
Test	0.595717	0.788462	0.642857	0.958333	0.947368	0.696970	0.800595

- fold2

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.625409	0.678392	0.789916	0.512500	0.706767	0.621212	0.651208
Test	0.552395	0.795918	0.739130	0.846154	0.809524	0.785714	0.792642

- fold3

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.583959	0.698492	0.738318	0.652174	0.711712	0.681818	0.695246
Test	0.578317	0.775510	0.774194	0.777778	0.857143	0.666667	0.775986

- fold4

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.631784	0.653266	0.620690	0.698795	0.742268	0.568627	0.659742
Test	0.549262	0.795918	0.750000	0.840000	0.818182	0.777778	0.795000

- fold5

epoch	Loss	ACC	SN	SP	PPV	NPV	AUC
Train	0.554223	0.698492	0.689655	0.710843	0.769231	0.621053	0.700249
Test	0.588917	0.816327	0.833333	0.800000	0.800000	0.833333	0.816667

5折平均结果

epoch	ACC	SN	SP	PPV	NPV	AUC
Train	0.700830	0.728881	0.663249	0.741136	0.653598	0.696065

