

Table S8A. The quantified classifier performance based on SVM algorithm.

bal_accuracy	pr_auc	roc_auc
0.845278668	0.862665596	0.926472275
0.838048326	0.872504255	0.928552739
0.853791912	0.877408379	0.9332113
0.864519351	0.895058548	0.941795408
0.841435173	0.870532532	0.928057048
0.838446593	0.868775065	0.928693924
0.851755936	0.880349363	0.935637326
0.844037506	0.876191968	0.933331648
0.858935451	0.880671217	0.934676623
0.852486383	0.878769838	0.933706603
0.843758811	0.862988368	0.926328023
0.841126589	0.874620817	0.928872385
0.840254812	0.869541278	0.92724277
0.847762935	0.871041545	0.9304317
0.850489414	0.870412782	0.931207636
0.842393608	0.875566844	0.931698914
0.848051899	0.867590473	0.927938759
0.844062346	0.864484898	0.926765191
0.85139016	0.877087673	0.933275049
0.854809975	0.871574856	0.930897729

Table S8B. The quantified classifier performance based on Random Forest algorithm.

bal_accuracy	pr_auc	roc_auc
0.824671108	0.843021471	0.912510967
0.825550992	0.850738852	0.913985764
0.825060698	0.852127035	0.917758788
0.844516478	0.874729949	0.92717415
0.825196633	0.846856232	0.912884558
0.82120312	0.843588103	0.912080201
0.822117601	0.851875493	0.918611665
0.822749123	0.856596568	0.919168385
0.834904407	0.857029183	0.919429274
0.840170478	0.854488375	0.919796244

0.826946926	0.84540897	0.914255394
0.823813908	0.859093929	0.917274875
0.825667659	0.848641895	0.914717202
0.830572277	0.84692629	0.91593084
0.828684133	0.847492732	0.917067133
0.837150513	0.855176757	0.918139945
0.820218205	0.84088372	0.909741068
0.829062804	0.847666159	0.914179626
0.826565258	0.853629715	0.918750081
0.835451219	0.853111908	0.919342029

Table S8C. The quantified classifier performance based on LightGBM algorithm.

bal_accuracy	pr_auc	roc_auc
0.833092577	0.841915512	0.913375865
0.827238511	0.846037698	0.912264866
0.83393368	0.854912479	0.920671021
0.853957918	0.879071142	0.931063414
0.825745746	0.842362356	0.910140718
0.826918362	0.842202399	0.910255964
0.83693366	0.859064076	0.923294932
0.82831071	0.85237675	0.918399091
0.839744508	0.851076364	0.917361235
0.838701304	0.853056662	0.919404116
0.832544009	0.845111146	0.914560988
0.835970607	0.860120705	0.920710384
0.830871086	0.841336361	0.911033899
0.822860703	0.848489422	0.914781259
0.834123352	0.850250599	0.917270632
0.831389875	0.848588611	0.914715537
0.825748223	0.832406292	0.90652974
0.83073067	0.847962837	0.913850808
0.83395156	0.85445459	0.919566089
0.840140318	0.852314703	0.920651066

Table S8D. The quantified classifier performance based on Xgboost algorithm.

bal_accuracy	pr_auc	roc_auc
0.831407286	0.835835074	0.909252988
0.82530175	0.846456949	0.91231397
0.836948235	0.859214306	0.92238806
0.851614945	0.880475342	0.932726889
0.823970946	0.844762765	0.912098866
0.82742155	0.84415216	0.911712611
0.839580293	0.857975439	0.922814126
0.833134888	0.85224882	0.919418227
0.837592343	0.856481755	0.91945128
0.844823392	0.857591035	0.920383808
0.832049742	0.842966938	0.913130706
0.832261104	0.860866407	0.919408384
0.829266513	0.846249603	0.912324919
0.830691285	0.855214022	0.918397472
0.839219134	0.852498607	0.91865421
0.830959017	0.844193527	0.914709032
0.827139033	0.830592465	0.90528435
0.82652563	0.845224097	0.913954042
0.831224376	0.854210875	0.919116003
0.837735894	0.849262625	0.920028122

Table S8E. The quantified classifier performance based on NB algorithm.

bal_accuracy	pr_auc	roc_auc
0.815008191	0.806478816	0.897206789
0.812618218	0.815924463	0.899015422
0.814204035	0.805611825	0.900265952
0.825903927	0.82783215	0.908215023
0.816702214	0.817432462	0.9008568
0.805408367	0.801815379	0.895453616
0.810335272	0.802431889	0.896401321
0.801349973	0.815740698	0.901934726
0.812740926	0.823531722	0.906675462
0.823644287	0.824535504	0.906039869
0.814746589	0.81011468	0.897934072

0.809036953	0.807559188	0.897068458
0.811464974	0.814097573	0.901994128
0.815830305	0.802114978	0.899151427
0.81942621	0.814825686	0.903087349
0.825376252	0.818488988	0.903299005
0.809264824	0.805862434	0.89486285
0.809001725	0.810473466	0.898017293
0.813950752	0.813226938	0.90255389
0.815561719	0.815716077	0.904222482
