

## I. SUPPLEMENTARY MATERIAL

## A. Acute Kidney Injury (AKI)

1) *Overall Performance: SHAP Filter vs. SHAP Weight:* Table I summarizes the overall 5-fold cross-validation performance for the baseline SHAP-based filtering and weighting strategies. Results show that SHAP weighting consistently achieves higher AUC, F1, and recall across all models compared to SHAP filtering.

2) *SHAP Filter Variants:* Table II reports the 5-fold cross-validation performance for each SHAP Filter variant, including combinations with Isolation Forest (IF), Odds Ratio (OR), or both. These variants illustrate the limitations of unweighted filtering, particularly in models' precision-recall trade-offs.

3) *SHAP Weight Variants:* Table III presents the 5-fold cross-validation performance for each SHAP Weight variant. Weighting schemes consistently improve model robustness, with the IF + OR combination yielding the best overall scores across most metrics.

TABLE I  
5-FOLD CV RESULTS FOR SHAP FILTER VS. SHAP WEIGHT BASELINES (MEAN  $\pm$  STD).

Strategy	Model	AUC	Accuracy	F1 Score	Precision	Recall
SHAP Filter (Baseline)	Logistic	0.8748 $\pm$ 0.0140	0.7962 $\pm$ 0.0248	0.6021 $\pm$ 0.0964	0.7968 $\pm$ 0.0348	0.4966 $\pm$ 0.1215
	MLP	0.8532 $\pm$ 0.0228	0.7857 $\pm$ 0.0358	0.5793 $\pm$ 0.1414	0.7571 $\pm$ 0.0118	0.4877 $\pm$ 0.1593
	RF	0.8610 $\pm$ 0.0190	0.7850 $\pm$ 0.0307	0.5658 $\pm$ 0.1389	0.7933 $\pm$ 0.0681	0.4708 $\pm$ 0.1847
	XGB	0.8072 $\pm$ 0.0383	0.7530 $\pm$ 0.0354	0.5533 $\pm$ 0.0611	0.6878 $\pm$ 0.1217	0.4861 $\pm$ 0.1200
SHAP Weight	Logistic	0.9154 $\pm$ 0.0006	0.8340 $\pm$ 0.0022	0.7613 $\pm$ 0.0008	0.7069 $\pm$ 0.0075	0.8251 $\pm$ 0.0095
	MLP	0.9209 $\pm$ 0.0006	0.8421 $\pm$ 0.0028	0.7677 $\pm$ 0.0008	0.7274 $\pm$ 0.0101	0.8131 $\pm$ 0.0113
	RF	0.9226 $\pm$ 0.0008	0.8535 $\pm$ 0.0009	0.7545 $\pm$ 0.0018	0.8163 $\pm$ 0.0038	0.7013 $\pm$ 0.0046
	XGB	0.9361 $\pm$ 0.0005	0.8568 $\pm$ 0.0018	0.7906 $\pm$ 0.0021	0.7450 $\pm$ 0.0049	0.8423 $\pm$ 0.0060

TABLE II  
5-FOLD CV RESULTS FOR SHAP FILTER VARIANTS (MEAN  $\pm$  STD).

Strategy	Model	AUC	Accuracy	F1 Score	Precision	Recall
Baseline - SHAP Filter	Logistic	0.8748 $\pm$ 0.0140	0.7962 $\pm$ 0.0248	0.6021 $\pm$ 0.0964	0.7968 $\pm$ 0.0348	0.4966 $\pm$ 0.1215
	MLP	0.8532 $\pm$ 0.0228	0.7857 $\pm$ 0.0358	0.5793 $\pm$ 0.1414	0.7571 $\pm$ 0.0118	0.4877 $\pm$ 0.1593
	RF	0.8610 $\pm$ 0.0190	0.7850 $\pm$ 0.0307	0.5658 $\pm$ 0.1389	0.7933 $\pm$ 0.0681	0.4708 $\pm$ 0.1847
	XGB	0.8072 $\pm$ 0.0383	0.7530 $\pm$ 0.0354	0.5533 $\pm$ 0.0611	0.6878 $\pm$ 0.1217	0.4861 $\pm$ 0.1200
IF only - SHAP Filter	Logistic	0.8703 $\pm$ 0.0202	0.7592 $\pm$ 0.0555	0.4407 $\pm$ 0.3033	0.8013 $\pm$ 0.1156	0.3909 $\pm$ 0.3155
	MLP	0.8464 $\pm$ 0.0458	0.7605 $\pm$ 0.0512	0.4521 $\pm$ 0.2761	0.7937 $\pm$ 0.1120	0.3887 $\pm$ 0.2859
	RF	0.8429 $\pm$ 0.0185	0.7571 $\pm$ 0.0437	0.4379 $\pm$ 0.2283	0.8226 $\pm$ 0.0943	0.3529 $\pm$ 0.2521
	XGB	0.7611 $\pm$ 0.0534	0.7312 $\pm$ 0.0431	0.3933 $\pm$ 0.2362	0.7041 $\pm$ 0.0967	0.3245 $\pm$ 0.2305
OR only - SHAP Filter	Logistic	0.8684 $\pm$ 0.0101	0.7643 $\pm$ 0.0263	0.4566 $\pm$ 0.1200	0.8640 $\pm$ 0.0543	0.3243 $\pm$ 0.1310
	MLP	0.8312 $\pm$ 0.0456	0.7398 $\pm$ 0.0542	0.3300 $\pm$ 0.2898	0.8692 $\pm$ 0.1039	0.2571 $\pm$ 0.2560
	RF	0.8303 $\pm$ 0.0308	0.7518 $\pm$ 0.0255	0.4165 $\pm$ 0.1274	0.8364 $\pm$ 0.0602	0.2907 $\pm$ 0.1243
	XGB	0.7591 $\pm$ 0.1048	0.7473 $\pm$ 0.0435	0.4616 $\pm$ 0.1624	0.7033 $\pm$ 0.1174	0.3633 $\pm$ 0.1729
IF + Odds - SHAP Filter	Logistic	0.8717 $\pm$ 0.0237	0.7794 $\pm$ 0.0481	0.5531 $\pm$ 0.2246	0.7805 $\pm$ 0.1273	0.4975 $\pm$ 0.2539
	MLP	0.8608 $\pm$ 0.0210	0.7737 $\pm$ 0.0542	0.5312 $\pm$ 0.2918	0.7605 $\pm$ 0.1154	0.5056 $\pm$ 0.3033
	RF	0.8735 $\pm$ 0.0100	0.7837 $\pm$ 0.0417	0.5468 $\pm$ 0.2052	0.8132 $\pm$ 0.0990	0.4642 $\pm$ 0.2289
	XGB	0.8146 $\pm$ 0.0488	0.7584 $\pm$ 0.0446	0.4953 $\pm$ 0.2676	0.7266 $\pm$ 0.0816	0.4491 $\pm$ 0.2600

TABLE III  
5-FOLD CV RESULTS FOR SHAP WEIGHT VARIANTS (MEAN  $\pm$  STD).

Strategy	Model	AUC	Accuracy	F1 Score	Precision	Recall
Shapley Weight	Logistic	0.9154 $\pm$ 0.0006	0.8340 $\pm$ 0.0022	0.7613 $\pm$ 0.0008	0.7069 $\pm$ 0.0075	0.8251 $\pm$ 0.0095
	MLP	0.9209 $\pm$ 0.0006	0.8421 $\pm$ 0.0028	0.7677 $\pm$ 0.0008	0.7274 $\pm$ 0.0101	0.8131 $\pm$ 0.0113
	RF	0.9226 $\pm$ 0.0008	0.8535 $\pm$ 0.0009	0.7545 $\pm$ 0.0018	0.8163 $\pm$ 0.0038	0.7013 $\pm$ 0.0046
	XGB	0.9361 $\pm$ 0.0005	0.8568 $\pm$ 0.0018	0.7906 $\pm$ 0.0021	0.7450 $\pm$ 0.0049	0.8423 $\pm$ 0.0060
IF only - SHAP Weight	Logistic	0.9155 $\pm$ 0.0006	0.8317 $\pm$ 0.0030	0.7607 $\pm$ 0.0012	0.6997 $\pm$ 0.0087	0.8337 $\pm$ 0.0104
	MLP	0.9211 $\pm$ 0.0011	0.8319 $\pm$ 0.0059	0.7639 $\pm$ 0.0025	0.6960 $\pm$ 0.0182	0.8475 $\pm$ 0.0217
	RF	0.9225 $\pm$ 0.0009	0.8535 $\pm$ 0.0006	0.7540 $\pm$ 0.0019	0.8174 $\pm$ 0.0014	0.6998 $\pm$ 0.0042
	XGB	0.9362 $\pm$ 0.0006	0.8548 $\pm$ 0.0029	0.7895 $\pm$ 0.0022	0.7381 $\pm$ 0.0083	0.8489 $\pm$ 0.0060
OR only - SHAP Weight	Logistic	0.9154 $\pm$ 0.0006	0.8342 $\pm$ 0.0014	0.7612 $\pm$ 0.0007	0.7078 $\pm$ 0.0059	0.8234 $\pm$ 0.0089
	MLP	0.9208 $\pm$ 0.0005	0.8347 $\pm$ 0.0087	0.7649 $\pm$ 0.0042	0.7051 $\pm$ 0.0243	0.8373 $\pm$ 0.0246
	RF	0.9226 $\pm$ 0.0010	0.8533 $\pm$ 0.0004	0.7542 $\pm$ 0.0011	0.8155 $\pm$ 0.0018	0.7015 $\pm$ 0.0029
	XGB	0.9361 $\pm$ 0.0006	0.8560 $\pm$ 0.0024	0.7895 $\pm$ 0.0018	0.7438 $\pm$ 0.0080	0.8414 $\pm$ 0.0075
IF + Odds - SHAP Weight	Logistic	0.9155 $\pm$ 0.0006	0.8332 $\pm$ 0.0014	0.7613 $\pm$ 0.0009	0.7041 $\pm$ 0.0039	0.8286 $\pm$ 0.0038
	MLP	0.9211 $\pm$ 0.0010	0.8370 $\pm$ 0.0041	0.7660 $\pm$ 0.0015	0.7108 $\pm$ 0.0154	0.8313 $\pm$ 0.0199
	RF	0.9221 $\pm$ 0.0008	0.8528 $\pm$ 0.0004	0.7533 $\pm$ 0.0015	0.8150 $\pm$ 0.0019	0.7003 $\pm$ 0.0038
	XGB	0.9360 $\pm$ 0.0005	0.8559 $\pm$ 0.0017	0.7901 $\pm$ 0.0014	0.7416 $\pm$ 0.0047	0.8455 $\pm$ 0.0037

### B. Full Performance Overview: Diabetes Mellitus (ICD - 250)

Table IV presents the 5-fold CV results for the SHAP Filter and SHAP Weight strategies applied to diabetes mellitus prediction. The observed performance gains further support the generalizability of our refinement framework.

TABLE IV  
5-FOLD CV RESULTS ON ICD-250 FOR ALL SHAP-BASED REFINEMENT STRATEGIES (MEAN  $\pm$  STD).

Strategy	Model	AUC	Accuracy	F1 Score	Precision	Recall
Baseline - SHAP Filter	Logistic	0.6487 $\pm$ 0.0720	0.7600 $\pm$ 0.0369	0.2795 $\pm$ 0.1028	0.3973 $\pm$ 0.1211	0.2328 $\pm$ 0.1125
	MLP	0.5952 $\pm$ 0.0941	0.7644 $\pm$ 0.0355	0.1799 $\pm$ 0.0779	0.3769 $\pm$ 0.1291	0.1306 $\pm$ 0.0735
	RF	0.7448 $\pm$ 0.0921	0.7982 $\pm$ 0.0226	0.1282 $\pm$ 0.1589	0.7910 $\pm$ 0.2604	0.0803 $\pm$ 0.1043
	XGB	0.6009 $\pm$ 0.1228	0.7662 $\pm$ 0.0560	0.0427 $\pm$ 0.0795	0.3989 $\pm$ 0.4666	0.0390 $\pm$ 0.0790
Baseline - SHAP Weight	Logistic	0.9010 $\pm$ 0.0008	0.8764 $\pm$ 0.0084	0.7036 $\pm$ 0.0053	0.7099 $\pm$ 0.0370	0.7000 $\pm$ 0.0320
	MLP	0.9195 $\pm$ 0.0023	0.8827 $\pm$ 0.0171	0.7286 $\pm$ 0.0183	0.7197 $\pm$ 0.0783	0.7496 $\pm$ 0.0672
	RF	0.9203 $\pm$ 0.0024	0.9014 $\pm$ 0.0020	0.7276 $\pm$ 0.0076	0.8627 $\pm$ 0.0032	0.6291 $\pm$ 0.0118
	XGB	0.9264 $\pm$ 0.0015	0.8967 $\pm$ 0.0039	0.7524 $\pm$ 0.0044	0.7560 $\pm$ 0.0197	0.7494 $\pm$ 0.0147
IF + Odds - SHAP Filter	Logistic	0.6494 $\pm$ 0.0705	0.6802 $\pm$ 0.1287	0.3691 $\pm$ 0.0215	0.3709 $\pm$ 0.1343	0.4440 $\pm$ 0.1616
	MLP	0.6436 $\pm$ 0.0425	0.7073 $\pm$ 0.0896	0.3137 $\pm$ 0.0584	0.3835 $\pm$ 0.1503	0.3411 $\pm$ 0.1782
	RF	0.6948 $\pm$ 0.0550	0.7811 $\pm$ 0.0256	0.1602 $\pm$ 0.1778	0.6387 $\pm$ 0.3111	0.1328 $\pm$ 0.1774
	XGB	0.5747 $\pm$ 0.0670	0.7753 $\pm$ 0.0226	0.1565 $\pm$ 0.2249	0.2568 $\pm$ 0.2233	0.1510 $\pm$ 0.2361
IF + Odds - SHAP Weight	Logistic	0.9032 $\pm$ 0.0007	0.8811 $\pm$ 0.0033	0.7115 $\pm$ 0.0022	0.7240 $\pm$ 0.0176	0.6999 $\pm$ 0.0144
	MLP	0.9202 $\pm$ 0.0011	0.8913 $\pm$ 0.0041	0.7429 $\pm$ 0.0048	0.7364 $\pm$ 0.0195	0.7499 $\pm$ 0.0114
	RF	0.9218 $\pm$ 0.0012	0.9025 $\pm$ 0.0003	0.7312 $\pm$ 0.0020	0.8649 $\pm$ 0.0053	0.6334 $\pm$ 0.0056
	XGB	0.9274 $\pm$ 0.0011	0.8980 $\pm$ 0.0016	0.7539 $\pm$ 0.0019	0.7624 $\pm$ 0.0086	0.7456 $\pm$ 0.0054
IF only - SHAP Filter	Logistic	0.6486 $\pm$ 0.0747	0.7067 $\pm$ 0.0582	0.3715 $\pm$ 0.0647	0.3528 $\pm$ 0.0891	0.4161 $\pm$ 0.1186
	MLP	0.6148 $\pm$ 0.0997	0.7483 $\pm$ 0.0377	0.2523 $\pm$ 0.2015	0.3313 $\pm$ 0.0905	0.2714 $\pm$ 0.2596
	RF	0.6935 $\pm$ 0.0824	0.7920 $\pm$ 0.0122	0.1919 $\pm$ 0.1219	0.5611 $\pm$ 0.2046	0.1291 $\pm$ 0.0956
	XGB	0.6673 $\pm$ 0.1333	0.7807 $\pm$ 0.0125	0.1874 $\pm$ 0.2260	0.3305 $\pm$ 0.2248	0.1718 $\pm$ 0.2273
IF only - SHAP Weight	Logistic	0.9019 $\pm$ 0.0015	0.8811 $\pm$ 0.0027	0.7088 $\pm$ 0.0031	0.7278 $\pm$ 0.0154	0.6911 $\pm$ 0.0128
	MLP	0.9180 $\pm$ 0.0045	0.8909 $\pm$ 0.0102	0.7364 $\pm$ 0.0114	0.7502 $\pm$ 0.0495	0.7266 $\pm$ 0.0370
	RF	0.9196 $\pm$ 0.0019	0.9014 $\pm$ 0.0019	0.7275 $\pm$ 0.0070	0.8636 $\pm$ 0.0007	0.6286 $\pm$ 0.0103
	XGB	0.9260 $\pm$ 0.0028	0.8985 $\pm$ 0.0026	0.7534 $\pm$ 0.0052	0.7671 $\pm$ 0.0103	0.7403 $\pm$ 0.0069
OR only - SHAP Filter	Logistic	0.5853 $\pm$ 0.1075	0.7421 $\pm$ 0.0289	0.2134 $\pm$ 0.1399	0.3000 $\pm$ 0.0639	0.1968 $\pm$ 0.1711
	MLP	0.5576 $\pm$ 0.1402	0.7629 $\pm$ 0.0201	0.1644 $\pm$ 0.1436	0.2884 $\pm$ 0.0748	0.1340 $\pm$ 0.1305
	RF	0.7180 $\pm$ 0.0590	0.7928 $\pm$ 0.0026	0.1884 $\pm$ 0.2200	0.3846 $\pm$ 0.2566	0.1497 $\pm$ 0.1782
	XGB	0.6000 $\pm$ 0.1290	0.8009 $\pm$ 0.0475	0.2360 $\pm$ 0.3111	0.2715 $\pm$ 0.3447	0.2100 $\pm$ 0.2850
OR only - SHAP Weight	Logistic	0.9010 $\pm$ 0.0009	0.8791 $\pm$ 0.0061	0.7048 $\pm$ 0.0044	0.7228 $\pm$ 0.0305	0.6891 $\pm$ 0.0212
	MLP	0.9192 $\pm$ 0.0006	0.8905 $\pm$ 0.0026	0.7409 $\pm$ 0.0053	0.7349 $\pm$ 0.0136	0.7475 $\pm$ 0.0170
	RF	0.9201 $\pm$ 0.0018	0.9016 $\pm$ 0.0020	0.7272 $\pm$ 0.0081	0.8664 $\pm$ 0.0029	0.6267 $\pm$ 0.0130
	XGB	0.9258 $\pm$ 0.0021	0.8981 $\pm$ 0.0034	0.7539 $\pm$ 0.0045	0.7632 $\pm$ 0.0159	0.7451 $\pm$ 0.0066

### C. Full Performance Overview: Heart Failure (ICD - 428)

Table V summarizes the 5-fold CV results for the SHAP Filter and SHAP Weight strategies on heart failure prediction. Similar trends to AKI are observed, with SHAP Weight consistently improving both ROC-AUC and recall across all models.

TABLE V  
5-FOLD CV RESULTS ON ICD-428 (HEART FAILURE) FOR ALL SHAP-BASED REFINEMENT STRATEGIES (MEAN  $\pm$  STD).

Strategy	Model	AUC	Accuracy	F1 Score	Precision	Recall
Baseline - SHAP Filter	Logistic	0.7558 $\pm$ 0.1115	0.8335 $\pm$ 0.0396	0.4208 $\pm$ 0.1413	0.4181 $\pm$ 0.1446	0.4264 $\pm$ 0.1477
	MLP	0.7486 $\pm$ 0.0932	0.8446 $\pm$ 0.0242	0.3524 $\pm$ 0.1828	0.4116 $\pm$ 0.1451	0.3287 $\pm$ 0.2113
	RF	0.7924 $\pm$ 0.0899	0.8641 $\pm$ 0.0078	0.2695 $\pm$ 0.1481	0.5522 $\pm$ 0.1024	0.1937 $\pm$ 0.1389
	XGB	0.6629 $\pm$ 0.1094	0.8566 $\pm$ 0.0028	0.0455 $\pm$ 0.0399	0.4250 $\pm$ 0.2012	0.0248 $\pm$ 0.0223
IF - SHAP Filter	Logistic	0.5997 $\pm$ 0.2342	0.8325 $\pm$ 0.0652	0.2127 $\pm$ 0.2664	0.3269 $\pm$ 0.3305	0.1667 $\pm$ 0.2149
	MLP	0.5559 $\pm$ 0.2403	0.8545 $\pm$ 0.0222	0.1286 $\pm$ 0.1935	0.3218 $\pm$ 0.3470	0.0842 $\pm$ 0.1298
	RF	0.7435 $\pm$ 0.0679	0.8578 $\pm$ 0.0002	0.1150 $\pm$ 0.1918	0.3343 $\pm$ 0.2896	0.0857 $\pm$ 0.1447
	XGB	0.5858 $\pm$ 0.1485	0.8551 $\pm$ 0.0044	0.0401 $\pm$ 0.0695	0.1216 $\pm$ 0.2105	0.0240 $\pm$ 0.0416
IF - SHAP Weight	Logistic	0.9178 $\pm$ 0.0024	0.8945 $\pm$ 0.0015	0.6453 $\pm$ 0.0049	0.6194 $\pm$ 0.0107	0.6741 $\pm$ 0.0223
	MLP	0.9243 $\pm$ 0.0011	0.8997 $\pm$ 0.0065	0.6606 $\pm$ 0.0084	0.6405 $\pm$ 0.0390	0.6864 $\pm$ 0.0524
	RF	0.9244 $\pm$ 0.0012	0.9105 $\pm$ 0.0007	0.6099 $\pm$ 0.0034	0.8033 $\pm$ 0.0036	0.4916 $\pm$ 0.0031
	XGB	0.9293 $\pm$ 0.0015	0.9036 $\pm$ 0.0011	0.6711 $\pm$ 0.0045	0.6525 $\pm$ 0.0087	0.6910 $\pm$ 0.0169
IF + Odds - SHAP Filter	Logistic	0.7964 $\pm$ 0.0324	0.8397 $\pm$ 0.0368	0.3895 $\pm$ 0.0949	0.4749 $\pm$ 0.1405	0.3770 $\pm$ 0.1650
	MLP	0.6988 $\pm$ 0.1635	0.8343 $\pm$ 0.0319	0.3039 $\pm$ 0.1791	0.3769 $\pm$ 0.2065	0.2963 $\pm$ 0.2118
	RF	0.7899 $\pm$ 0.0718	0.8472 $\pm$ 0.0241	0.1407 $\pm$ 0.1283	0.5359 $\pm$ 0.2091	0.1071 $\pm$ 0.1126
	XGB	0.5595 $\pm$ 0.0818	0.8049 $\pm$ 0.0839	0.1202 $\pm$ 0.1650	0.0989 $\pm$ 0.1365	0.1687 $\pm$ 0.2472
IF + Odds - SHAP Weight	Logistic	0.9200 $\pm$ 0.0025	0.8990 $\pm$ 0.0031	0.6471 $\pm$ 0.0080	0.6458 $\pm$ 0.0266	0.6509 $\pm$ 0.0371
	MLP	0.9258 $\pm$ 0.0021	0.9015 $\pm$ 0.0053	0.6636 $\pm$ 0.0062	0.6483 $\pm$ 0.0329	0.6827 $\pm$ 0.0365
	RF	0.9252 $\pm$ 0.0020	0.9111 $\pm$ 0.0009	0.6139 $\pm$ 0.0048	0.8038 $\pm$ 0.0050	0.4965 $\pm$ 0.0051
	XGB	0.9300 $\pm$ 0.0019	0.9058 $\pm$ 0.0023	0.6701 $\pm$ 0.0065	0.6697 $\pm$ 0.0222	0.6723 $\pm$ 0.0313
Odds - SHAP Filter	Logistic	0.8236 $\pm$ 0.0187	0.8457 $\pm$ 0.0477	0.5156 $\pm$ 0.0469	0.5035 $\pm$ 0.1159	0.5650 $\pm$ 0.1059
	MLP	0.7865 $\pm$ 0.0396	0.8440 $\pm$ 0.0504	0.4641 $\pm$ 0.0800	0.4997 $\pm$ 0.1238	0.4774 $\pm$ 0.1552
	RF	0.8228 $\pm$ 0.0277	0.8387 $\pm$ 0.0601	0.2924 $\pm$ 0.1693	0.5699 $\pm$ 0.1694	0.2943 $\pm$ 0.2707
	XGB	0.6507 $\pm$ 0.1055	0.7808 $\pm$ 0.1213	0.1785 $\pm$ 0.1302	0.2732 $\pm$ 0.1923	0.2382 $\pm$ 0.2725
Odds - SHAP Weight	Logistic	0.9202 $\pm$ 0.0023	0.8987 $\pm$ 0.0017	0.6503 $\pm$ 0.0058	0.6399 $\pm$ 0.0136	0.6620 $\pm$ 0.0263
	MLP	0.9253 $\pm$ 0.0020	0.8951 $\pm$ 0.0115	0.6586 $\pm$ 0.0087	0.6202 $\pm$ 0.0465	0.7089 $\pm$ 0.0546
	RF	0.9254 $\pm$ 0.0021	0.9111 $\pm$ 0.0007	0.6135 $\pm$ 0.0043	0.8050 $\pm$ 0.0049	0.4956 $\pm$ 0.0058
	XGB	0.9299 $\pm$ 0.0016	0.9048 $\pm$ 0.0021	0.6717 $\pm$ 0.0054	0.6601 $\pm$ 0.0132	0.6844 $\pm$ 0.0200
Shapley - SHAP Weight	Logistic	0.9204 $\pm$ 0.0025	0.9020 $\pm$ 0.0025	0.6480 $\pm$ 0.0073	0.6636 $\pm$ 0.0169	0.6337 $\pm$ 0.0201
	MLP	0.9249 $\pm$ 0.0021	0.9017 $\pm$ 0.0071	0.6582 $\pm$ 0.0060	0.6584 $\pm$ 0.0558	0.6650 $\pm$ 0.0562
	RF	0.9251 $\pm$ 0.0015	0.9112 $\pm$ 0.0011	0.6159 $\pm$ 0.0096	0.8014 $\pm$ 0.0042	0.5003 $\pm$ 0.0141
	XGB	0.9299 $\pm$ 0.0028	0.9078 $\pm$ 0.0023	0.6711 $\pm$ 0.0045	0.6822 $\pm$ 0.0160	0.6608 $\pm$ 0.0153