

Workflow	Rank	HGSC	CCOC	ENOC	LGSC	MUC
All	All	All	All	All	All	All
sequential	1	0.97	0.891	0.852	0.92	0.963
two_step	2	0.969	0.865	0.738	0.782	0.864
smote_rf	3	0.972	0.858	0.663	0.421	0.742
hybrid_xgb	4	0.971	0.852	0.659	0.55	0.729
smote_xgb	5	0.973	0.84	0.654	0.576	0.733
up_rf	6	0.974	0.846	0.652	0.392	0.734
hybrid_svm	7	0.965	0.813	0.65	0.482	0.746
up_svm	8	0.965	0.822	0.661	0.448	0.751
smote_svm	9	0.967	0.779	0.637	0.521	0.745
up_xgb	10	0.971	0.84	0.648	0.489	0.73
hybrid_rf	11	0.968	0.809	0.632	0.449	0.732
none_svm	12	0.967	0.8	0.673	0.413	0.762
smote_mr	13	0.959	0.848	0.633	0.417	0.682
hybrid_mr	14	0.953	0.832	0.615	0.422	0.695
up_mr	15	0.952	0.815	0.59	0.403	0.657
down_mr	16	0.915	0.844	0.563	0.293	0.692
down_svm	17	0.89	0.82	0.478	0.292	0.698
down_rf	18	0.916	0.832	0.433	0.27	0.574
down_xgb	19	0.798	0.661	0.425	0.197	0.497