

Workflow	Rank	HGSC	CCOC	ENOC	LGSC	MUC
All	All	All	All	All	All	All
sequential	1	0.842	0.839	0.715	0.884	0.884
smote_rf	2	0.856	0.849	0.641	0.33	0.73
smote_xgb	3	0.866	0.83	0.632	0.569	0.719
hybrid_xgb	4	0.854	0.842	0.638	0.543	0.715
two_step	5	0.833	0.796	0.632	0.758	0.818
up_svm	6	0.822	0.81	0.637	0.437	0.739
up_xgb	7	0.85	0.83	0.625	0.481	0.716
up_rf	8	0.861	0.837	0.629	0.308	0.722
smote_svm	9	0.829	0.764	0.612	0.512	0.733
hybrid_svm	10	0.82	0.802	0.625	0.472	0.734
hybrid_rf	11	0.844	0.797	0.607	0.44	0.719
none_svm	12	0.808	0.789	0.653	0.407	0.752
smote_mr	13	0.803	0.838	0.606	0.404	0.665
hybrid_mr	14	0.784	0.821	0.586	0.408	0.679
up_mr	15	0.777	0.802	0.558	0.389	0.638
down_mr	16	0.663	0.833	0.529	0.273	0.675
none_rf	17	0.768	0.839	0.463	0	0.7
down_svm	18	0.602	0.807	0.432	0.271	0.682
down_rf	19	0.663	0.82	0.395	0.249	0.55
down_xgb	20	0.501	0.628	0.308	0.171	0.469
none_mr	21	0.034	0.019	0.039	0	0
none_xgb	22	0.026	0.062	0	0	0