					batny-Debrecen	(Auto-Sklearn)					
old	HP		Search Time (s)	Algorithm run (s)	Seed	Accuracy	recall F	1 macro	F1 micro	AUROC	
nline1	diabetic-fold-1	mlp	3600	7,430558	85	0,75	0,757212	0,749981	0,75	0,757212	
line2	diabetic-fold-2	random_forest	3600	4,725435	85	0,730435	0,729545	0,729699	0,730435	0,729545	
line3	diabetic-fold-3	mlp	3600	17,021097	85	0,756522	0,752429	0,75337	0,756522	0,752429	
ine4	diabetic-fold-4	libsvm_svc	3600	2,086872	85	0,704348	0,704311	0,703788	0,704348	0,704311	Diabetic-retinopathy-Debrecen
ne5	diabetic-fold-5	passive_aggress		2,18941	85	0,73913	0,735606	0,735754	0,73913	0,735606	Auto-Sklearn Auto-Weka
ne6	diabetic-fold-6	liblinear_svc	3600	1,766577	85	0,791304	0,799231	0,790909	0,791304	0,799231	Accuracy Auroc Accuracy Auroc
ine7	diabetic-fold-7 diabetic-fold-8	mlp	3600 3600	19,064871 10.363527	85 85	0,721739 0.756522	0,721996 0.764286	0,716923 0,752308	0,721739 0.756522	0,721996	2,39 -3,1 -2,39
ine8		mlp								0,764286	
ine9	diabetic-fold-9	lda	3600	2,402991	85	0,713043	0,718807	0,712957	0,713043	0,718807	A positive value indicates that this framework is x percent be
line10		mlp	3600	4,246183	85 95 000	0,704348	0,703721	0,702526	0,704348	0,703721	while a negative value indicates that it is x percent worse.
verage	N/A	N/A	N/A	7,130	85,000	0,737	0,739	0,735	0,737	0,739	
				Diabetic-retino	pathy-Debrece	n (Auto-Weka)					
	HP		Search Time	Algorithm run	Seed		Deceleles .	"	F1 score	AUDOO	
ild ine1	autoweka-diabet		(s) 3008.29	(s) 0.01	Seed 85	Accuracy 66.6667	Precision r	ecall 0.667	0.667	AUROC 0,688	
line2	autoweka-diabet		3050,73	0,04	85	62,2587	0,621	0,623	0,620	0,684	
line3	autoweka-diabet		3031,84	0,05	85	59,1304	0,600	0,591	0,590	0,663	
line4	autoweka-diabet		3009.51	0.03	85	64,6718	0.647	0.647	0.647	0.714	
line5	autoweka-diabet		3240,13	52,79	85	76,4479	0,770	0,764	0,765	0,857	
line6	autoweka-diabet		3220	49,8	85	89,5652	0,901	0,896	0,896	0,931	
line7	autoweka-diabet		3008,71	0,1	85	74,7826	0,777	0,748	0,750	0,811	
ine8	autoweka-diabet	Logistic	3009,45	0,03	85	74,7826	0,779	0,748	0,751	0,830	
line9	autoweka-diabet	LWL	3245,23	55,85	85	66,9565	0,674	0,670	0,670	0,757	
line10	autoweka-diabet	SMO	3273,63	0,13	85	77,7992	0,795	0,778	0,777	0,784	
verage	N/A	N/A	3109,75	158,83	85,00	71,31	0,72	0,71	0,71	0,77	
			Ob	esity Dataset ra	w and data syntl	neti (Auto-Sklea	rn)				
ld	HP	Classifier		Algorithm run (s				1 macro	F1 micro	AUROC	
line1	Obesity-fold-1	gradient_boosting	3600	20,688436	85	0,95283	0,951835	0,951791	0,95283	0,996496	
line2	Obesity-fold-2	libsvm_svc	3600	4,098679	85	0,971564	0,971001	0,971814	0,971564	0,997796	Obesity Dataset raw and data syntheti
line3	Obesity-fold-3	libsvm_svc	3600	3,354564	85	0,981043	0,978807	0,979618	0,981043	0,999346	Auto-Sklearn Auto-Weka
line4	Obesity-fold-4	gradient_boostin		86,799546	85	0,943128	0,938914	0,932557	0,943128	0,996662	Accuracy Auroc Accuracy Auro
line5	Obesity-fold-5	gradient_boosting		170,421677	85	0,966825	0,968942	0,969339	0,966825	0,999287	4,62 0,8 -4,62
line6	Obesity-fold-6	gradient_boosting	3600	28,833921	85	0,971564	0,970605	0,971264	0,971564	0,998435	
line7	Obesity-fold-7	gradient_boosting	3600	13,595027	85	0,971564	0,967386	0,968472	0,971564	0,999332	A positive value indicates that this framework is x percent be
line8	Obesity-fold-8	gradient_boosting		125,910552	85	0,957346	0,955436	0,954633	0,957346	0,997772	while a negative value indicates that it is x percent worse.
line9	Obesity-fold-9	libsvm_svc	3600	3,559975	85	0,981043	0,976264	0,978697	0,981043	0,999612	
line10 verage	Obesity-fold-10 N/A	libsvm_svc N/A	3600 N/A	3,421645 46,068	85,000	0,976303 0,967	0,974779 0,965	0,976184 0,965	0,976303 0,967	0,999324	
· siaye	INO	.20	13/0	40,008	05,000	0,967	0,900	0,905	0,967	0,898	
				besity Dataset ra							
old	HP			Algorithm run (s						AUROC	
ine1	autoweka-obesity		3032,11	0,14	85	96,2264	0,964	0,962	0,962	0,999	
line2	autoweka-obesity		3026,3	0,13	85	96,2085	0,963	0,962	0,962	0,998	
line3	autoweka-obesity		3017,57	0,14	85	98,5782	0,987	0,986	0,986	0,999	
line4	autoweka-obesity		3059,73	0,04	85	78,673	0,787	0,787	0,786	0,967	
line5	autoweka-obesity		3069,91	0,12	85	97,6303	0,977	0,976	0,976	0,999	
line6	autoweka-obesity		3122,27	0,06	85	91,4692	0,918	0,915	0,915	0,982	
line7	autoweka-obesity		3162,25	0,04	85	86,7299	0,866	0,867	0,866	0,980	
line8	autoweka-obesity		3047,7	0,03	85 85	97,6303	0,976	0,976	0,976	0,999	
nline9 nline10	autoweka-obesit		3063,21 3095,53	0,14	85 85	97,1223 80,5687	0,974 0,809	0,971 0,806	0,971	1,000 0,965	
verage	N/A	N/A	3069,66	0,00	85,00	92.08	0,009	0,800	0,803	0,905	
verage	IWA	IVA	3003,00	0,03	03,00	32,00	0,02	0,32	0,32	0,00	
				Theresis Common	. Dinama Camaiasa	I (Auto Chloom)					
			Search Time	Thoracic Surger Algorithm run	y binary Surviva	i (Auto-Skiearn)					
old	HP		(s)	(s)	Seed	Accuracy	recall F	1 macro	F1 micro	AUROC	
line1	Thoracic-surgery	lda	3600	3,810117	85	0,893617	0,5	0,47191	0,893617	0,5	
line2	Thoracic-surgery	random_forest	3600	6.874774	85	0,87234	0,5	0.465909		0,5	
				0,074774				0,403303	0,87234		
	Thoracic-surgery		3600	6,621401	85	0,808511	0,5	0,447059	0,87234 0,808511	0,5	
line3	Thoracic-surgery Thoracic-surgery	random_forest	3600								Thoracic Surgery Binary Survival
line3 line4		random_forest lda		6,621401	85	0,808511	0,5	0,447059	0,808511	0,5	Thoracic Surgery Binary Survival Auto-Sklearn Auto-Weka
line3 line4 line5 line6	Thoracic-surgery Thoracic-surgery	random_forest lda	3600 3600 3600	6,621401 1,946631 6,081775 1,577444	85 85 85 85	0,808511 0,893617 0,893617 0,87234	0,5 0,5 0,488372 0,5	0,447059 0,47191 0,47191 0,465909	0,808511 0,893617 0,893617 0,87234	0,5 0,5 0,488372 0,5	Thoracic Surgery Binary Survival Auto-Sklearn Auto-Weka Accuracy Auroc Accuracy Auroc
line3 line4 line5 line6	Thoracic-surgery Thoracic-surgery	random_forest lda adaboost k_nearest_neighl	3600 3600	6,621401 1,946631 6,081775	85 85 85	0,808511 0,893617 0,893617	0,5 0,5 0,488372	0,447059 0,47191 0,47191	0,808511 0,893617 0,893617	0,5 0,5 0,488372	Auto-Sklearn Auto-Weka
nline3 nline4 nline5 nline6 nline7	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery	random_forest lda adaboost k_nearest_neighl	3600 3600 3600 3600 3600	6,621401 1,946631 6,081775 1,577444	85 85 85 85	0,808511 0,893617 0,893617 0,87234	0,5 0,5 0,488372 0,5	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735	0,808511 0,893617 0,893617 0,87234	0,5 0,5 0,488372 0,5	Auto-Sklearn Auto-Weka Accuracy Auroc Accuracy Auro
line3 line4 line5 line6 line7 line8 line9	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees	3600 3600 3600 3600 3600	6,621401 1,946631 6,081775 1,577444 6,760939	85 85 85 85 85 85 85	0,808511 0,893617 0,893617 0,87234 0,893617	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735 0,472756	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881	Auto-Sklearn Auto-Weka Accuracy Auroc Accuracy Auroc -1.32 1.04 1.32 A positive value indicates that this framework is x percent be
line3 line4 line5 line6 line7 line8 line9 line10	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida	3600 3600 3600 3600 3600 3600 3600	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455	85 85 85 85 85 85 85 85	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881 0,487179	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735 0,472756 0,447059	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881 0,487179	Auto-Sklearn Auto-Weka Accuracy Auroc Accuracy Auroc -1,32 1,04 1,32
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida	3600 3600 3600 3600 3600	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518	85 85 85 85 85 85 85	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735 0,472756	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida	3600 3600 3600 3600 3600 3600 3600	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,42 Thoracic Surge	85 85 85 85 85 85 85 85 85	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881 0,487179	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735 0,472756 0,447059	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881 0,487179	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10 /erage	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N/A	3600 3600 3600 3600 3600 3600 3600 N/A	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,42 Thoracic Surge Algorithm run	85 85 85 85 85 85 85 85 85 85	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84	0.5 0.488372 0.5 0.5 0.486486 0.49881 0.487179 0.50	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735 0,472756 0,447059 0,46	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881 0,4987179 0,50	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10 verage	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N//A Classifier	3600 3600 3600 3600 3600 3600 3600 N/A	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,42 Thoracic Surge Algorithm run	85 85 85 85 85 85 85 85 85	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84	0.5 0.488372 0.5 0.5 0.486486 0.49881 0.487179 0.50	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735 0,472756 0,447059	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881 0,487179	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10 rerage	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N//A Classifier	3600 3600 3600 3600 3600 3600 N/A Search Time (s)	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,42 Thoracic Surge	85 85 85 85 85 85 85 85 85,00 ry Binary Surviv	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84 al (Auto-Weka)	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49861 0,487179 0,50	0,447059 0,47191 0,47191 0,47191 0,43795 0,47191 0,433735 0,472756 0,447059 0,46	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84	0,5 0,5 0,488372 0,5 0,5 0,486486 0,49881 0,487179 0,50	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10 rerage	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N/A Classifier RandomTree RandomCommitt	3600 3600 3600 3600 3600 3600 N/A Search Time (s) 3 007,24	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,42 Thoracic Surge Algorithm run (s)	85 85 85 85 85 85 85 85,00 ry Binary Surviv Seed	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84 al (Auto-Weka) Accuracy	0,5 0,6488372 0,5 0,5 0,5 0,486486 0,49881 0,487179 0,50 Precision r 0,79	0,447059 0,47191 0,47191 0,465009 0,47191 0,433735 0,472756 0,447059 0,46	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84	0,5 0,5 0,488372 0,5 0,5 0,5 0,486486 0,49881 0,487179 0,50 AUROC 0,62	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine6 ine8 ine9 ine10 verage old ine1 ine2 ine3	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac autoweka-thorac autoweka-thorac	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N/A Classifier RandomTree RandomCommitt SimpleLogistic	3600 3600 3600 3600 3600 3600 3600 3600	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,42 Thoracic Surge Algorithm run (s) 0,03	85 85 85 85 85 85 85 85 85,00 85,00 85,00	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,888511 0,84 al (Auto-Weka) Accuracy 85,11 87,23	0,5 0,6 0,488372 0,5 0,5 0,5 0,486486 0,49881 0,487179 0,50 Precision 0,79 0,00	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735 0,472756 0,447059 0,46	0,808511 0,893617 0,893617 0,87234 0,893617 0,702128 0,808511 0,84	0,5 0,488372 0,5 0,5 0,5 0,5 0,5 0,486486 0,49881 0,487179 0,50 AUROC 0,62 0,46	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10 rerage old ine1 ine2 ine2 ine3 ine3	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery NVA HP autoweka-thorac autoweka-thorac autoweka-thorac	random_forest ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees ida N/A Classifier RandomTree RandomCommitt SimpleLogistic KStar	3600 3600 3600 3600 3600 3600 3600 N/A Search Time (s) 3 007,24 3 008,86 3 007,98	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,42 Thoracic Surge Algorithm run (s) 0,03 0,01 0,02	85 85 85 85 85 85 85 85 85,00 ry Binary Surviv Seed 85,00 85,00	0,808511 0,839617 0,839617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84 al (Auto-Weka) Accuracy 85,11 87,23 80,85	0,5 0,5 0,488372 0,5 0,5 0,5 0,488486 0,49881 0,497179 0,50 Precision 0,79 0,00 0,00	0,447059 0,47191 0,47191 0,465909 0,47191 0,433735 0,472756 0,447059 0,46	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,00 0,00 0,00	0.5 0.488372 0.5 0.488372 0.5 0.5 0.496486 0.49681 0.487179 0.50 AUROC 0.62 0.46 0.50	Auto-Sklearn Auto-Weka
line3 line4 line5 line6 line6 line7 line8 line9 line10 verage old line1 line2 line2 line3 line3	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac autoweka-thorac autoweka-thorac autoweka-thorac autoweka-thorac	random_forest ida adaboost k_nearest_neighi adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees ida N/A Classifier RandomTree RandomCommitt SimpleLogistic KStar OneR	3600 3600 3600 3600 3600 3600 3600 N/A Search Time (s) 3 007.24 3 008.86 3 007.98 3 009.84	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,42 Thoracic Surge Algorithm run (s) 0,03 0,01 0,02 0,23	85 85 85 85 85 85 85 85 85 85 85 85 85,00 85,00 85,00 85,00 85,00 85,00 85,00 85,00 85,00 85,00 85,00	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84 al (Auto-Weka) Accuracy 85,11 87,23 80,85 89,36	0.5 0.488372 0.5 0.4888372 0.5 0.5 0.488486 0.49881 0.487179 0.50 Precision 0,79 0,00 0,00 0,00 0,00	0,447059 0,47191 0,47191 0,465809 0,47191 0,433735 0,472756 0,447059 0,46 ecall 0,85 0,87 0,81	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,00 0,00 0,00	0.5 0.488372 0.5 0.4883872 0.5 0.5 0.486486 0.49881 0.487179 0.50 AUROC 0.62 0.46 0.50 0.67	Auto-Sklearn Auto-Weka Accuracy Auroc Accuracy Auroc -1.32 1.04 1.32 A positive value indicates that this framework is x percent be
line3 line4 line5 line6 line7 line8 line9 line10 verage line1 line2 line3 line4 line5 line5 line6 line5	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac autoweka-thorac autoweka-thorac autoweka-thorac autoweka-thorac autoweka-thorac	random_forest Ida adaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida Ida Ida Indi RandomTree RandomTree RandomCommits SKStar OneR Bagging OneR	3600 36000 36000 36000 36000 36000 36000 N/A Search Time (s) 3 007,24 3 008,86 3 007,39 3 007,39 3 012,39 3 012,39 3 012,39 3 012,39	6.621401 1,946631 6.081775 1,577444 6,7609399 5,944518 2,401455 2,401455 4,42 Thoracic Surge Algorithm run (s) 0,03 0,01 0,01 0,02 0,23 0,02 0,01	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 81,23 41 (Auto-Weka) Accuracy 85,11 87,23 89,35 91,49 87,23 100,00	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 Precision 0,79 0,00 0,00 0,00 0,00 0,00 0,00 1,00	0,447059 0,47191 0,47191 0,47591 0,47591 0,47590 0,47191 0,430735 0,472756 0,447059 0,46 ecall 0,85 0,87 0,81 0,89 0,92 0,97 1,100	0,808511 0,893617 0,893617 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,000 0,000 0,000 0,000 0,000	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 AUROC 0.62 0.46 0.50 0.67 0.50 0.49	Auto-Sklearn Auto-Weka
line3 line4 line5 line6 line7 line8 line9 line9 line10 verage old line1 line2 line2 line3 line4 line5 line6 line6 line6 line7 line8	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac autoweka-thorac autoweka-thorac autoweka-thorac autoweka-thorac autoweka-thorac	random_forest Iddom_forest Iddom_forest Iddom_forest Iddom_forest.pleight adaboost k_nearest_neight k_neight k_neight k_neight k_neight k_neight k_neight k_neight k_neight k_ne	3600 36000 36000 36000 36000 36000 36000 36000 N/A Search Time (e) 3 007,24 3 008,86 3 007,98 3 009,84 3 007,39 3 012,99 3 006,57	6,621401 1,946631 6,081775 1,577444 6,760393 2,219199 5,944518 2,4014555 4,442 Thoracic Surge Algorithm run (s) 0,03 0,01 0,02 0,23 0,02 0,00 0,01 0,01 0,01	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,87234 0,893617 0,87234 0,765957 0,702128 0,808511 0,84 1 (Auto-Weka) Accuracy 85,11 87,22 80,85 89,36 91,44 87,22 87,22 87,22	0.5 0.488372 0.5 0.488486 0.48681 0.487179 0.50 0.50 0.60 0.00 0.00 0.00 0.00 0.00	0,447059 0,47191 0,47191 0,465909 0,47191 0,465909 0,47195 0,437355 0,472756 0,447059 0,46 ecall 0,85 0,87 0,81 0,89 0,92 0,87 1,000 0,77	0.808511 0.893617 0.87234 0.893617 0.765957 0.702128 0.803611 0.84 F1 score 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.5 0.488372 0.5 0.4883872 0.5 0.5 0.486486 0.49881 0.487179 0.50 AUROC 0.62 0.46 0.50 0.67 0.50 0.49 0.00	Auto-Sklearn Auto-Weka
line3 line4 line5 line6 line7 line8 line9 line10 verage old line1 line2 line3 line3 line4 line5 line6 line6 line6 line7	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest idadadoost leighi adadoost leighi adadoost leighi k_nearest_neighi extra_trees idada leighi N/A Classifier RandomTree RandomTree RandomTree Kistjar OneR Bagging OneR AdaBoostM1 StimpleLogistic	3600 36000 36000 36000 36000 36000 N/A Search Time (s) 3 007.24 3 008.86 3 007.39 3 007.30 3 012.39 3 008.32 3 007.32	6,821401 1,946631 6,081775 1,577444 6,76939 2,219199 5,944518 2,401455 4,445 2 Thoracic Surge 0,03 0,01 0,02 0,23 0,02 0,01 0,01 0,02 0,02 0,01	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87254 0,893617 0,765957 0,702128 0,808511 0,84 al (Auto-Weka) 85,11 87,23 80,85 89,36 91,49 87,23 100,00 74,47	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.50 0.50 0.60 0.00 0.00 0.00 0.00	0,447059 0,47191 0,47591 0,47591 0,465509 0,477191 0,435735 0,472756 0,447059 0,46 0,46 0,85 0,87 0,87 0,89 0,92 0,92 0,87 1,00 0,777	0,808511 0,893617 0,893617 0,893617 0,87254 0,893617 0,765957 0,702128 0,808511 0,808511 0,000 0	0.5 0.488372 0.5 0.4883872 0.5 0.486486 0.49841 0.487179 0.50 AUROC 0.62 0.46 0.50 0.67 0.50 0.67 0.50 0.49 0.00 0.58	Auto-Sklearn Auto-Weka
ine3 ine4 iine5 iine6 iine7 iine8 iine9 iine10 verage line1 iine2 iine3 iine4 iine5 iine6 iine6 iine6 iine6 iine6 iine6 iine6 iine7 iine8 iine8 iine9	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest Ida dadaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N/A Classifier RandomTree RandomCommitt SKStar OneR Bagging OneR AdaBoostM1 SkimpleLogistic BayesNet BayesNet BayesNet	3600 36000 36000 36000 36000 36000 36000 36000 36000 3000, N/A Search Time (s) 3 007, 24 3 008, 26 3 007, 39 3 012, 39 3 012, 39 3 008, 22 3 007, 39 3 008, 32 3 007, 39 3 008, 32 3 007, 39 3 007, 39	6.621401 1.946631 1.946631 1.577444 6.760939 5.944518 2.401455 2.401456 Algorithm run (s) 0.03 0.01 0.02 0.02 0.02 0.01 0.01 0.02 0.02	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87234 0,893617 0,762957 0,702128 0,80511 87,223 80,855 89,36 91,49 87,23 100,00 76,60 74,447	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 Precision 0,79 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0,447059 0,47191 0,47591 0,47591 0,47591 0,47591 0,47590 0,471090 0,47059 0,46 ecall 0,85 0,87 0,87 0,87 0,87 1,00 0,777 0,775	0,808511 0,893617 0,893617 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.62 0.46 0.50 0.67 0.50 0.49 0.00 0.58 0.58 0.59 0.59	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10 ine10 ine1 ine2 ine3 ine4 ine6 ine7 ine8 ine6 ine7 ine8 ine6 ine6 ine6 ine6 ine6 ine7 ine8 ine8 ine9 ine10	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest idadadoost leighi adadoost leighi adadoost leighi k_nearest_neighi extra_trees idada leighi N/A Classifier RandomTree RandomTree RandomTree Kistjar OneR Bagging OneR AdaBoostM1 StimpleLogistic	3600 36000 36000 36000 36000 36000 N/A Search Time (s) 3 007.24 3 008.86 3 007.39 3 007.30 3 012.39 3 008.32 3 007.32	6,821401 1,946631 6,081775 1,577444 6,76939 2,219199 5,944518 2,401455 4,445 2 Thoracic Surge 0,03 0,01 0,02 0,23 0,02 0,01 0,01 0,02 0,02 0,01	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87254 0,893617 0,765957 0,702128 0,808511 0,84 al (Auto-Weka) 85,11 87,23 80,85 89,36 91,49 87,23 100,00 74,47	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.50 0.50 0.60 0.00 0.00 0.00 0.00	0,447059 0,47191 0,47591 0,47591 0,465509 0,477191 0,435735 0,472756 0,447059 0,46 0,46 0,85 0,87 0,87 0,89 0,92 0,92 0,87 1,00 0,777	0,808511 0,893617 0,893617 0,893617 0,87254 0,893617 0,765957 0,702128 0,808511 0,808511 0,000 0	0.5 0.488372 0.5 0.4883872 0.5 0.486486 0.49841 0.487179 0.50 AUROC 0.62 0.46 0.50 0.67 0.50 0.67 0.50 0.49 0.00 0.58	Auto-Sklearn Auto-Weka
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10 ine10 ine1 ine2 ine3 ine4 ine6 ine7 ine8 ine6 ine7 ine8 ine6 ine6 ine6 ine6 ine6 ine7 ine8 ine8 ine9 ine10	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest Ida dadaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N/A Classifier RandomTree RandomCommitt SKStar OneR Bagging OneR AdaBoostM1 SkimpleLogistic BayesNet BayesNet BayesNet	3600 36000 36000 36000 36000 36000 36000 36000 36000 3000, N/A Search Time (s) 3 007, 24 3 008, 26 3 007, 39 3 012, 39 3 012, 39 3 008, 22 3 007, 39 3 008, 32 3 007, 39 3 008, 32 3 007, 39 3 007, 39	6.621401 1.946631 1.946631 1.577444 6.760939 5.944518 2.401455 2.401456 Algorithm run (s) 0.03 0.01 0.02 0.02 0.02 0.01 0.01 0.02 0.02	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87234 0,893617 0,762957 0,702128 0,80511 87,223 80,855 89,36 91,49 87,23 100,00 76,60 74,447	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 Precision 0,79 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0,447059 0,47191 0,47591 0,47591 0,47591 0,47591 0,47590 0,471090 0,47059 0,46 ecall 0,85 0,87 0,87 0,87 0,87 1,00 0,777 0,775	0,808511 0,893617 0,893617 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.62 0.46 0.50 0.67 0.50 0.49 0.00 0.58 0.58 0.59 0.59	Auto-Sklearn Auto-Weka Accuracy Auroc Accuracy Auroc -1.32 1.04 1.32 A positive value indicates that this framework is x percent be
ne3 ne4 ne5 ne6 ne7 ne8 ne9 ne10 erage dd ne1 ne1 ne6 ne7 ne8 ne9 ne10 ne1 ne1 ne9 ne10 ne1 ne9 ne10	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest Ida dadaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N/A Classifier RandomTree RandomCommitt SKStar OneR Bagging OneR AdaBoostM1 SkimpleLogistic BayesNet BayesNet BayesNet	3600 36000 36000 36000 36000 36000 36000 36000 36000 3000, N/A Search Time (s) 3 007, 24 3 008, 26 3 007, 39 3 012, 39 3 012, 39 3 008, 22 3 007, 39 3 008, 32 3 007, 39 3 008, 32 3 007, 39 3 007, 39	6.621401 1.946631 1.946631 1.577444 6.760939 5.944518 2.401455 2.401456 Algorithm run (s) 0.03 0.01 0.02 0.02 0.02 0.01 0.01 0.02 0.02	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87234 0,893617 0,762957 0,702128 0,80511 87,223 80,855 89,36 91,49 87,23 100,00 76,60 74,447	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 Precision 0,79 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0,447059 0,47191 0,47591 0,47591 0,47591 0,47591 0,47590 0,471090 0,47059 0,46 ecall 0,85 0,87 0,87 0,87 0,87 1,00 0,777 0,775	0,808511 0,893617 0,893617 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.62 0.46 0.50 0.67 0.50 0.49 0.00 0.58 0.58 0.59 0.59	Auto-Sklearn Auto-Weka Accuracy Auroc Accuracy Auroc -1.32 1.04 1.32 A positive value indicates that this framework is x percent be
ne3 ne4 ne5 ne6 ne7 ne8 ne9 ne10 erage dd ne1 ne1 ne6 ne7 ne8 ne9 ne10 ne1 ne1 ne9 ne10 ne1 ne9 ne10	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest Ida dadaboost k_nearest_neighi adaboost k_nearest_neighi extra_trees Ida N/A Classifier RandomTree RandomCommitt SKStar OneR Bagging OneR AdaBoostM1 SkimpleLogistic BayesNet BayesNet BayesNet	3600 36000 36000 36000 36000 36000 36000 36000 36000 3000, N/A Search Time (s) 3 007, 24 3 008, 26 3 007, 39 3 012, 39 3 012, 39 3 008, 22 3 007, 39 3 008, 32 3 007, 39 3 008, 32 3 007, 39 3 007, 39	6.621401 1,946631 6.081775 1,577444 6,76999 5,944518 2,401455 4,445 4,445 0,003 0,001 0,002 0,001 0,002 0,001 0,002 0,001 0,002 0,001 0,004	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 87,223 80,855 89,36 91,49 87,223 100,00 76,60 74,47 80,85 85,32	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 Precision 0,79 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0,447059 0,47191 0,47591 0,47591 0,47591 0,47591 0,47590 0,471090 0,47059 0,46 ecall 0,85 0,87 0,87 0,87 0,87 1,00 0,777 0,775	0,808511 0,893617 0,893617 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.62 0.46 0.50 0.67 0.50 0.49 0.00 0.58 0.58 0.59 0.59	Auto-Sklearn Auto-Weka Accuracy Auroc -1,32 1,04 1,32 1,32 A positive value indicates that this framework is x percent be
ine3 ine4 ine5 ine6 ine7 ine8 ine9 ine10 ine10 ine1 ine2 ine3 ine4 ine6 ine7 ine8 ine6 ine7 ine8 ine6 ine6 ine6 ine6 ine6 ine7 ine8 ine8 ine9 ine10	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest Idda dadaboost k_nearest_neight dadaboost k_nearest_neight dadaboost k_nearest_neight dadaboost k_nearest_neight dadaboost dad	3600 36000 36000 36000 36000 36000 N/A Search Time (s) 3 007,24 3 008,86 3 007,39 3 012,99 3 0108,32 3 007,68 3 007,68 3 007,68	6,621401 1,946631 6,081775 1,577444 6,760939 5,944518 2,219199 5,944518 2,401455 2,401455 2,401455 0,03 0,01 0,00 0,02 0,03 0,01 0,01 0,00 0,01 0,00 0,00 0,00	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 87,223 80,855 89,36 91,49 87,223 100,00 76,60 74,47 80,85 85,32	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 Precision 0,79 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0,447059 0,47191 0,47591 0,47591 0,47591 0,47591 0,47590 0,471090 0,47059 0,46 ecall 0,85 0,87 0,87 0,87 0,87 1,00 0,777 0,775	0,808511 0,893617 0,893617 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.62 0.46 0.50 0.67 0.50 0.49 0.00 0.58 0.58 0.59 0.59	Auto-Sklearn Auto-Weka Accuracy Auroc -1,32 1,04 1,32 1,32 A positive value indicates that this framework is x percent be
ine3 ine4 ine5 ine6 ine6 ine7 ine8 ine9 ine9 ine10 ine	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac	random_forest ida adaboost leighi adaboost leighi adaboost leighi k_nearest_neighi k_nearest_neighi k_nearest_neighi k_nearest_neighi k_nearest_neighi kalaboost k_nearest_neighi kalaboost k_nearest_neighi kalaboost k_nearest_neighi kalaboost k_nearest_neighi kalaboost kStar OneR Bagging OneR AdaBoostM1 Simplet.ogistic BayesNet N/A	3600 36000 36000 36000 36000 36000 36000 36000 36000 3000, N/A Search Time (s) 3 007, 24 3 008, 26 3 007, 39 3 012, 39 3 012, 39 3 008, 22 3 007, 39 3 008, 32 3 007, 39 3 008, 32 3 007, 39 3 007, 39	6,821401 1,946631 6,081775 1,577444 6,76939 2,219199 5,944518 2,401455 4,422 Algorithm run (s) 0,03 0,01 0,00 0,02 0,03 0,00 0,01 0,01 0,00 0,02 0,00 0,01 0,01	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,87254 0,893617 0,765957 0,702128 0,808511 0,84 al (Auto-Weka) 85,11 87,23 80,85 89,36 91,49 87,23 100,00 76,60 74,47 80,85 85,32	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.50 0.60 0.00 0.00 0.00 0.00 0.00	0,447059 0,47191 0,47591 0,47591 0,465509 0,477191 0,433735 0,472756 0,447059 0,46 ecali 0,85 0,87 0,87 1,00 0,777 0,75 0,81 0,85	0,808511 0,893617 0,893617 0,893617 0,765957 0,702128 0,808511 0,84 F1 score 0,82 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0.5 0.488372 0.5 0.488486 0.498811 0.487179 0.50 0.62 0.46 0.50 0.67 0.50 0.49 0.00 0.58 0.58	Auto-Sklearn Auto-Weka Accuracy Auroc Accuracy Auroc -1.32 1.04 1.32 A positive value indicates that this framework is x percent be
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inea 3 inea 4 inea 5 inea 6 inea 6 inea 6 inea 7 in	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery NIA HP autoweka-thorac NIA HP Breast-cancer-fo Breast-cancer-fo Breast-cancer-fo Breast-cancer-fo	random_forest idea adaboost k_nearest_neight adaboost k_nearest_neight adaboost k_nearest_neight with a state of the state	3600 36000 36000 36000 36000 36000 N/A Search Time (s) 3 007,24 3 008,36 3 007,39 3 012,99 3 006,36 3 007,64 3 008,45 Search Time (s) 3 008,36 3 007,36 3 008,36 3 007,36 3 008,36 3	6,621401 1,946631 6,081775 1,577444 6,769393 2,219199 5,944518 2,4014555 4,422 Thoracic Surge Algorithm run (s) 0,03 0,03 0,02 0,01 0,01 0,01 0,01 0,01 0,01 0,01	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,87234 0,893617 0,765957 0,702128 0,808111 0,84 1 (Auto-Weka) Accuracy 85,11 87,23 80,85 81,93	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 0.50 0.79 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0,447059 0,47191 0,455909 0,47191 0,465909 0,477191 0,437275 0,447059 0,447059 0,46 0,85 0,87 0,81 0,89 0,92 0,87 1,00 0,77 0,75 0,81 0,85	0,808511 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,808511 0,808511 0,808511 0,000 0	0.5 0.488372 0.5 0.488372 0.5 0.498486 0.49841 0.487179 0.50 AUROC 0.62 0.46 0.50 0.67 0.50 0.49 0.00 0.58 0.50 0.50 0.49 0.00 0.58 0.50 0.49 0.00 0.58 0.50 0.50 0.75 0.49	Auto-Sklearn Auto-Weka Accuracy Auro 1,32 1,04 1,32 A positive value indicates that this framework is x percent be while a negative value indicates that it is x percent worse
inea 3 inea 4 inea 5 inea 6 inea 6 inea 6 inea 7 in	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery NIA HP autoweka-thorac NIA HP Breast-cancer-fo Breast-cancer-fo Breast-cancer-fo Breast-cancer-fo	random_forest Idea adaboost k_nearest_neigh adaboost k_nearest_neigh k_neigh k	3600 36000 36000 36000 36000 36000 N/A Search Time (s) 3 007, 24 3 008, 86 3 007, 39 3 012, 99 3 006, 35 3 007, 30 3 006, 35 3 007, 30 3 006, 35 3 007, 30	6.621401 1.946631 6.061775 1.577444 6.760939 5.944518 2.40155 4.445 2.40155 4.452 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,893617 0,893617 0,87254 0,893617 0,765957 0,702128 0,808511 0,844 al (Auto-Weks) Accuracy 85,11 87,23 100,00 76,60 74,47 80,85 85,32 to-Sklearn) Accuracy 0,833333 0,75	0.5 0.488372 0.5 0.488486 0.49881 0.487179 0.50 Precision	0,447059 0,47191 0,47591 0,47591 0,465509 0,477191 0,433333	0,808511 0,893617 0,893617 0,893617 0,893617 0,765957 0,702128 0,808511 0,94 F1 score 0,82 0,00 0,00 0,00 0,00 0,00 0,00 0,00	0.5 0.488372 0.5 0.488372 0.5 0.488486 0.49841 0.487179 0.50 0.62 0.46 0.50 0.67 0.50 0.67 0.50 0.68 0.49 0.00 0.58 0.50 0.49 0.00 0.58 0.50 0.49 0.00 0.58 0.50 0.75	Auto-Sklearn Auto-Weka Accuracy Auroc -1,32 1,04 1,32 1,32 A positive value indicates that this framework is x percent be
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inea 3 inea 3 inea 4 inea 5 inea 6 inea 6 inea 7 in	Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery Thoracic-surgery N/A HP autoweka-thorac Breast-cancer-fo	random_forest Idda	3600 36000 36000 36000 36000 36000 N/A Search Time (s) 3 007.24 3 008.86 3 007.39 3 007.30 3 007.30 3 007.30 3 007.30 3 007.64 3 008.45 Search Time (s)	6,621401 1,946631 6,081775 1,577444 6,760939 2,219199 5,944518 2,401455 4,422 Thoracic Surge Algorithm run (s) 0,03 0,01 0,02 0,03 0,001 0,01 0,00 0,01 0,01 0,00 0,01 0,01 0,00 0,01 0,01 0,01 0,02 0,01 0,01	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,87234 0,893617 0,765957 0,702128 0,803611 0,84 al (Auto-Weka) Accuracy 85,11 87,23 80,85 89,36 91,44 87,23 100,00 76,60 74,47 80,85 85,32 to-Sklearn) Accuracy 0,833333 0,75 1,0,0 0,666667 0,833333 0,75	0.5 0.488372 0.5 0.488486 0.4887179 0.50 0.58 0.486486 0.487179 0.50 0.60 0.00 0.00 0.00 0.00 0.00 0.00	0,447059 0,47191 0,465909 0,47191 0,465909 0,477191 0,43735 0,4477256 0,447059 0,46 0,46 0,47 0,41 0,85 0,87 1,00 0,87 1,00 0,87 1,00 0,85 1	0,808511 0,893617 0,87234 0,803617 0,765957 0,702128 0,803611 0,803611 0,803611 0,904 0,000 0,00	0.5 0.488372 0.5 0.488372 0.5 0.486486 0.49881 0.487179 0.50 0.62 0.62 0.62 0.64 0.50 0.67 0.50 0.49 0.00 0.58 0.50 0.49 0.00 0.58 0.50 0.49 0.00 0.58 0.50 0.50 0.49 0.00 0.58	Auto-Sidearn Auto-Weka Accuracy Auro Accuracy Auro -1,32 1,04 1,32 A positive value indicates that this framework is x percent be while a negative value indicates that it is x percent worse Breast cancer Colimbra Auto-Sidearn Auto-Sidearn Auto-Weka Accuracy Auro Accuracy Auro
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line3 line4 line5 line6 line7 line8 line9 line10 verage line11 line2 line3 line3 line4 line5 line5 line6	Thoracic-surgery N/A HP autoweka-thorac auto	random_forest idea dadaboost ke, nearest_neight dadaboost dadaboost	3600 36000 36000 36000 36000 36000 N/A Search Time (s) 3 007.24 3 008.86 3 007.39 3 007.39 3 006.57 3 008.32 3 007.64 3 008.45 Search Time (s) 3600 36000 36000 36000 36000 36000 36000 36000 36000 36000 36000 36000 36000	6,821401 1,946831 6,081775 1,577444 6,76939 2,219199 5,944518 2,401455 4,422 Thoracic Surge Algorithm run (a) 0,02 0,03 0,01 0,00 0,02 0,01 0,01 0,00 0,02 0,01 0,00 0,00	85 85 85 85 85 85 85 85 85 85 85 85 85 8	0,808511 0,893617 0,87234 0,893617 0,765957 0,702128 0,893617 0,894617 0,894617 0,894617 0,894617 0,894617 0,894617 0,894617 85,11 87,23 80,85 89,36 91,44 87,23 100,00 76,60 74,47 80,85 85,32 to-Sklearn) Accuracy 0,833333 0,75 1,0,0 0,666667 0,833333 0,75 1,0,0 0,666667 0,833333 0,545455 1,0,0 0,727273 0,818182	0.5 0.488372 0.5 0.488486 0.48981 0.487179 0.50 0.5 0.687179 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0,447059 0,47191 0,47591 0,47591 0,47591 0,47595 0,472756 0,447059 0,46 0,47050 0,4705	0,808511 0,893617 0,87234 0,893617 0,765957 0,702128 0,808511 0,808511 0,808511 0,808511 0,808511 0,808511 0,000 0	0.5 0.488372 0.5 0.488372 0.5 0.486486 0.49881 0.487179 0.50 AUROC 0.62 0.46 0.50 0.67 0.50 0.49 0.00 0.50 0.49 0.00 0.50 0.49 0.00 0.50 0.49 0.00 0.50 0.49 0.00 0.55 0.49 0.00 0.56 0.49 0.00 0.56 0.49 0.00 0.56 0.49 0.00 0.56 0.49 0.00 0.56 0.49 0.00 0.56 0.49 0.00 0.56 0.49 0.00 0.76667 0.75 0.75 0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.76 0.77	Auto-Sklearn Auto-Weka Accuracy Auro 1,32 1,04 1,32 A positive value indicates that this framework is x percent bewhile a negative value indicates that it is x percent worse. Breast cancer Colimbra Auto-Sklearn Auto-Weka Accuracy Auroo Accuracy Auroo

Average										0,68				
				Heart failure o	clinical records (Auto-Sklearn)								
Fold	НР	Classifier	Search Time (s)	Algorithm run (s)	Seed	Accuracy	recall	F1 macro	F1 micro	AUROC				
\hline1	Heart-failure-fold	random_forest	3600		85		0,9	0,89011	0,9	0,9				
\hline2	Heart-failure-fold	extra_trees	3600	5,542089	85	0,866667	0,856459	0,856459	0,866667	0,856459				
\hline3	Heart-failure-fold	extra_trees	3600	2,990865	85	0,8	0,75	0,761905	0,8	0,75				
\hline4	Heart-failure-fold	gradient_boostin	3600	2,314326	85	0,766667	0,761364	0,730424	0,766667	0,761364		Heart failure	clinical records	
hline5	Heart-failure-fold	random_forest	3600	3,395769	85	0,8	0,805556	0,79638	0,8	0,805556	Auto-S	klearn	Auto-	Weka
\hline6	Heart-failure-fold	random_forest	3600	2,893426	85	0,866667	0,861607	0,864253	0,866667	0,861607	Accuracy	Auroc	Accuracy	Auroc
\hline7	Heart-failure-fold	random_forest	3600	3,739588	85	0,8	0,770186	0,744318	0,8	0,770186	0,95	-	3 -0,95	
\hline8	Heart-failure-fold	extra_trees	3600	3,429965	85	0,866667	0,464286	0,464286	0,866667	0,464286				
\hline9	Heart-failure-fold	random_forest	3600	2,849895	85	0,933333	0,920635	0,920635	0,933333	0,920635	A positive value	indicates that t	this framework is x	percent bette
\hline10	Heart-failure-fold	_	3600		85			0,847368	0,862069		while a negative value indicates that it is x percent		cent worse.	
Average	N/A	N/A	N/A	3,42	85,00	0,85	0,79	0,79	0,85	0,79				
				Heart failure	clinical records	(Auto-Weka)								
Fold	НР	Classifier	Search Time (s)	Algorithm run (s)	Seed	Accuracy	Precision	recall	F1 score	AUROC				
\hline1	autoweka-heart-	MultilayerPercep	3010,13	0,01	85	83,3333	0,839	0,833	0,835	0,860				
hline2	autoweka-heart-	RandomForest	3005,26	0,02	85	97,7695	0,978	0,978	0,977	0,999				
hline3	autoweka-heart-	JRip	3002,75	0,01	85	76,6667	0,771	0,767	0,768	0,817				
\hline4	autoweka-heart-	RandomCommit	3000,49	0,1	85	83,3333	0,841	0,833	0,836	0,904				
\hline5	autoweka-heart-	OneR	3004,89	0,01	85	80	0,814	0,800	0,790	0,764				
hline6	autoweka-heart-	BayesNet	3002,79	0,01	85	83,3333	0,834	0,833	0,833	0,882				
hline7	autoweka-heart-	SMO	3002,36	0,05	85	73,3333	0,707	0,733	0,717	0,578				
\hline8	autoweka-heart-	J48	3003,28	0,02	85	86,6667	0,867	0,867	0,867	0,696				
\hline9	autoweka-heart-	RandomSubSpa	3000,69				0,933	0,933	0,933	0,942				
vilines		DandomTree	3010.06	0.02	85	82,7586	0,834	0,828	0,821	0,785				
hline10	autoweka-heart-	Randonniee	3010,00	0,02										