

dataset	Logistic Regression					Gaussian Naive Bayes				
	LR	RS	GES	GES-A	GES-B	GNB	RS	GES	GES-A	GES-B
	1	2	3	4	5	A	B	c	d	e
<i>australian</i>	0.762	0.728	0.808	0.794	0.800	0.719	0.732	0.834	0.852	0.844
	-	-	2	2	2	-	-	a,b	a,b	a,b
<i>glass-0-1-2-3-vs-4-5-6</i>	0.775	0.385	0.800	0.770	0.695	0.709	0.612	0.719	0.656	0.728
	2	-	2	2	2	-	-	-	-	-
<i>glass-0-1-4-6-vs-2</i>	0.000	0.215	0.147	0.214	0.267	0.219	0.096	0.252	0.267	0.242
	-	1	1	1	1	-	-	-	-	-
<i>glass-0-1-5-vs-2</i>	0.000	0.179	0.197	0.194	0.205	0.218	0.014	0.288	0.340	0.271
	-	1	1	-	1	b	-	b	b	-
<i>glass-0-1-6-vs-2</i>	0.000	0.199	0.181	0.172	0.168	0.199	0.088	0.244	0.220	0.273
	-	1	1	1	1	-	-	-	-	-
<i>glass-0-1-6-vs-5</i>	0.149	0.000	0.115	0.015	0.000	0.760	0.180	0.760	0.648	0.648
	-	-	-	-	-	b	-	b	b	b
<i>glass-0-4-vs-5</i>	0.507	0.040	0.711	0.333	0.360	0.960	0.268	0.773	0.960	0.727
	2	-	2	-	-	b	-	b	b	b
<i>glass-0-6-vs-5</i>	0.333	0.000	0.144	0.180	0.160	0.893	0.349	0.893	0.867	0.960
	-	-	-	-	-	b	-	b	b	b
<i>glass0</i>	0.516	0.000	0.699	0.701	0.660	0.642	0.627	0.628	0.625	0.632
	2	-	2	1,2	2	-	-	-	-	-
<i>glass1</i>	0.243	0.000	0.583	0.524	0.563	0.604	0.490	0.634	0.626	0.630
	2	-	1,2	1,2	1,2	-	-	-	-	-
<i>glass2</i>	0.000	0.165	0.152	0.068	0.158	0.189	0.168	0.216	0.189	0.190
	-	1	-	-	1	-	-	-	-	-
<i>glass4</i>	0.167	0.200	0.441	0.428	0.541	0.237	0.000	0.257	0.300	0.257
	-	-	-	-	-	b	-	-	b	-
<i>glass5</i>	0.149	0.200	0.333	0.200	0.348	0.768	0.140	0.634	0.457	0.768
	-	-	-	-	-	b	-	b	-	b
<i>glass6</i>	0.759	0.238	0.811	0.832	0.778	0.772	0.809	0.775	0.738	0.800
	2	-	2	2	2	-	-	-	-	-
<i>heart</i>	0.822	0.207	0.796	0.787	0.775	0.802	0.769	0.816	0.812	0.837
	2	-	2	2	2	-	-	-	-	b
<i>hepatitis</i>	0.919	0.912	0.912	0.903	0.899	0.719	0.615	0.889	0.840	0.795
	-	-	-	-	-	-	-	b	-	-
<i>page-blocks-1-3-vs-4</i>	0.533	0.421	0.548	0.550	0.568	0.493	0.347	0.419	0.419	0.419
	-	-	-	-	-	-	-	-	-	-
<i>pima</i>	0.629	0.000	0.634	0.646	0.635	0.621	0.501	0.600	0.621	0.616
	2	-	2	2	2	b	-	b	b	b
<i>shuttle-c0-vs-c4</i>	0.996	0.031	0.996	0.996	0.996	0.980	0.968	0.988	0.984	0.984
	2	-	2	2	2	-	-	-	-	-
<i>shuttle-c2-vs-c4</i>	1.000	0.960	0.960	1.000	0.960	0.813	0.800	0.800	0.800	0.867
	-	-	-	-	-	-	-	-	-	-
<i>vowel0</i>	0.540	0.113	0.637	0.553	0.573	0.709	0.717	0.736	0.716	0.726
	2	-	2	2	2	-	-	-	-	-
<i>wisconsin</i>	0.949	0.048	0.909	0.891	0.868	0.943	0.941	0.943	0.937	0.933
	2	-	2	2	2	-	-	-	-	-
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	0.056	0.000	0.067	0.024	0.065	0.262	0.026	0.410	0.384	0.296
	2	-	-	-	-	b	-	b	b	b
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	0.315	0.000	0.683	0.347	0.055	0.201	0.174	0.752	0.677	0.748
	2,5	-	2,5	-	-	b	-	a,b	a,b	a,b
<i>yeast-0-3-5-9-vs-7-8</i>	0.036	0.000	0.114	0.114	0.000	0.269	0.148	0.377	0.269	0.345
	-	-	-	-	-	-	-	b	-	-
<i>yeast-0-5-6-7-9-vs-4</i>	0.000	0.000	0.000	0.067	0.000	0.175	0.067	0.521	0.480	0.531
	-	-	-	-	-	b	-	a,b	a,b	a,b
<i>yeast-2-vs-4</i>	0.236	0.000	0.186	0.151	0.359	0.297	0.508	0.770	0.713	0.774
	2	-	-	-	2	-	-	a	a	a
<i>yeast-2-vs-8</i>	0.000	0.000	0.000	0.000	0.000	0.254	0.249	0.658	0.658	0.658
	-	-	-	-	-	-	-	-	-	-
<i>yeast1</i>	0.329	0.374	0.567	0.563	0.571	0.457	0.502	0.529	0.519	0.549
	-	-	1,2	1,2	1,2	-	-	a	a	a
<i>yeast3</i>	0.153	0.225	0.756	0.729	0.758	0.236	0.548	0.778	0.778	0.767
	-	-	1,2	1,2	1,2	-	a	a,b	a,b	a,b
<i>yeast5</i>	0.000	0.000	0.000	0.000	0.000	0.154	0.321	0.586	0.664	0.669
	-	-	-	-	-	-	a	a,b	a,b	a,b

Table 1: F-score

dataset	Logistic Regression					Gaussian Naive Bayes				
	LR	RS	GES	GES-A	GES-B	GNB	RS	GES	GES-A	GES-B
	1	2	3	4	5	A	B	c	d	e
<i>australian</i>	0.788	0.711	0.812	0.827	0.815	0.752	0.763	0.884	0.865	0.864
	2	-	2	2	2	-	-	a,b	a,b	a,b
<i>glass-0-1-2-3-vs-4-5-6</i>	0.833	0.000	0.891	0.878	0.926	0.792	0.685	0.789	0.780	0.775
	2	-	2	2	2	-	-	-	-	-
<i>glass-0-1-4-6-vs-2</i>	0.000	0.338	0.519	0.471	0.481	0.495	0.282	0.603	0.614	0.619
	-	-	1	1	1	-	-	-	-	-
<i>glass-0-1-5-vs-2</i>	0.000	0.000	0.591	0.592	0.596	0.510	0.051	0.611	0.559	0.638
	-	-	1,2	1,2	1,2	b	-	b	b	b
<i>glass-0-1-6-vs-2</i>	0.000	0.286	0.421	0.458	0.537	0.481	0.258	0.494	0.578	0.463
	-	-	1	1	1	-	-	-	-	-
<i>glass-0-1-6-vs-5</i>	0.259	0.000	0.555	0.411	0.417	0.930	0.691	0.788	0.935	0.735
	-	-	2	-	2	b	-	-	b	-
<i>glass-0-4-vs-5</i>	0.624	0.000	0.893	0.394	0.337	0.994	0.584	0.822	0.994	0.994
	2	-	2,5	-	-	b	-	-	b	b
<i>glass-0-6-vs-5</i>	0.461	0.000	0.362	0.318	0.435	0.936	0.715	0.936	0.936	0.936
	2	-	-	-	2	-	-	-	-	-
<i>glass0</i>	0.619	0.000	0.739	0.749	0.757	0.632	0.605	0.624	0.633	0.624
	2	-	2	2	2	-	-	-	-	-
<i>glass1</i>	0.377	0.000	0.564	0.589	0.514	0.543	0.529	0.553	0.505	0.548
	2	-	1,2	1,2	2	-	-	-	-	-
<i>glass2</i>	0.000	0.385	0.397	0.395	0.536	0.568	0.459	0.562	0.529	0.514
	-	1	1	1	1	-	-	-	-	-
<i>glass4</i>	0.228	0.231	0.811	0.595	0.663	0.341	0.000	0.341	0.342	0.523
	-	-	1,2	-	-	b	-	b	b	b
<i>glass5</i>	0.274	0.200	0.639	0.677	0.768	0.929	0.672	0.788	0.744	0.885
	-	-	-	-	1,2	b	-	-	-	b
<i>glass6</i>	0.855	0.000	0.879	0.898	0.896	0.862	0.856	0.864	0.890	0.844
	2	-	2	2	2	-	-	-	-	-
<i>heart</i>	0.841	0.306	0.828	0.804	0.836	0.822	0.792	0.825	0.820	0.838
	2	-	2	2	2	-	-	-	-	-
<i>hepatitis</i>	0.634	0.844	0.628	0.748	0.737	0.678	0.623	0.778	0.797	0.718
	-	-	-	-	-	-	-	-	b	-
<i>page-blocks-1-3-vs-4</i>	0.688	0.643	0.921	0.902	0.908	0.653	0.543	0.581	0.547	0.548
	-	-	-	-	-	-	-	-	-	-
<i>pima</i>	0.703	0.000	0.722	0.718	0.703	0.701	0.595	0.699	0.685	0.695
	2	-	2	2	2	b	-	b	b	b
<i>shuttle-c0-vs-c4</i>	0.996	0.081	0.996	0.996	0.996	0.991	0.994	0.992	0.996	0.996
	2	-	2	2	2	-	-	-	-	-
<i>shuttle-c2-vs-c4</i>	1.000	0.996	0.996	0.996	0.996	0.983	0.800	0.800	0.937	0.937
	-	-	-	-	-	-	-	-	-	-
<i>vowel0</i>	0.719	0.161	0.703	0.695	0.758	0.873	0.814	0.829	0.821	0.803
	2	-	2	2	2	-	-	-	-	-
<i>wisconsin</i>	0.959	0.120	0.885	0.907	0.888	0.962	0.958	0.954	0.965	0.957
	2	-	2	2	2	-	-	-	-	-
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	0.135	0.000	0.127	0.063	0.125	0.364	0.013	0.456	0.439	0.363
	2	-	-	-	-	b	-	b	b	b
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	0.399	0.000	0.700	0.108	0.108	0.393	0.172	0.905	0.885	0.846
	2	-	2,4,5	-	-	b	-	a,b	a,b	a,b
<i>yeast-0-3-5-9-vs-7-8</i>	0.063	0.000	0.126	0.089	0.000	0.346	0.138	0.661	0.577	0.602
	-	-	-	-	-	-	-	a,b	a,b	a,b
<i>yeast-0-5-6-7-9-vs-4</i>	0.000	0.000	0.000	0.000	0.000	0.182	0.112	0.754	0.727	0.751
	-	-	-	-	-	-	-	a,b	a,b	a,b
<i>yeast-2-vs-4</i>	0.332	0.000	0.216	0.000	0.354	0.432	0.611	0.850	0.882	0.864
	2,4	-	-	-	-	-	-	a	a,b	a
<i>yeast-2-vs-8</i>	0.000	0.000	0.000	0.000	0.000	0.564	0.513	0.745	0.723	0.749
	-	-	-	-	-	-	-	-	-	-
<i>yeast1</i>	0.456	0.501	0.693	0.692	0.692	0.206	0.621	0.669	0.670	0.679
	-	-	1,2	1,2	1,2	-	a	a	a	a
<i>yeast3</i>	0.282	0.384	0.897	0.896	0.907	0.446	0.680	0.894	0.912	0.905
	-	-	1,2	1,2	1,2	-	a	a,b	a,b	a,b
<i>yeast5</i>	0.000	0.000	0.000	0.000	0.000	0.811	0.927	0.941	0.966	0.964
	-	-	-	-	-	-	a	a	a	a

Table 2: G-mean

dataset	Logistic Regression					Gaussian Naive Bayes				
	LR 1	RS 2	GES 3	GES-A 4	GES-B 5	GNB A	RS B	GES c	GES-A d	GES-B e
<i>australian</i>	0.791	0.727	0.812	0.823	0.818	0.770	0.781	0.869	0.863	0.853
	2	-	2	2	2	-	-	a,b	a,b	a,b
<i>glass-0-1-2-3-vs-4-5-6</i>	0.852	0.500	0.904	0.920	0.911	0.822	0.770	0.851	0.810	0.835
	2	-	2	2	2	-	-	-	-	-
<i>glass-0-1-4-6-vs-2</i>	0.500	0.611	0.544	0.619	0.642	0.561	0.477	0.665	0.643	0.640
	-	-	-	-	1	-	-	-	-	-
<i>glass-0-1-5-vs-2</i>	0.500	0.500	0.551	0.537	0.560	0.549	0.446	0.686	0.681	0.627
	-	-	-	-	-	-	-	b	b	-
<i>glass-0-1-6-vs-2</i>	0.500	0.583	0.607	0.636	0.563	0.547	0.448	0.588	0.657	0.583
	-	-	1	-	-	-	-	-	b	-
<i>glass-0-1-6-vs-5</i>	0.584	0.500	0.591	0.650	0.603	0.939	0.746	0.889	0.884	0.893
	-	-	2	-	2	b	-	-	-	-
<i>glass-0-4-vs-5</i>	0.750	0.500	0.894	0.706	0.832	0.994	0.679	0.944	0.994	0.994
	2	-	2	-	2	b	-	b	b	b
<i>glass-0-6-vs-5</i>	0.679	0.500	0.614	0.643	0.520	0.945	0.770	0.995	0.945	0.940
	-	-	-	-	-	-	-	b	-	-
<i>glass0</i>	0.657	0.500	0.763	0.776	0.769	0.701	0.684	0.705	0.701	0.705
	2	-	2	2	2	-	-	-	-	-
<i>glass1</i>	0.478	0.493	0.583	0.603	0.571	0.634	0.574	0.574	0.583	0.581
	-	-	-	2	2	-	-	-	-	-
<i>glass2</i>	0.500	0.565	0.567	0.544	0.534	0.604	0.551	0.672	0.632	0.682
	-	-	-	-	-	-	-	-	-	-
<i>glass4</i>	0.494	0.567	0.839	0.829	0.874	0.508	0.435	0.515	0.512	0.477
	-	-	1,2	1,2	1,2	-	-	-	-	-
<i>glass5</i>	0.594	0.600	0.790	0.793	0.752	0.938	0.729	0.888	0.949	0.949
	-	-	-	-	-	b	-	-	b	b
<i>glass6</i>	0.876	0.500	0.926	0.879	0.912	0.876	0.878	0.878	0.895	0.903
	2	-	2	2	2	-	-	-	-	-
<i>heart</i>	0.843	0.552	0.810	0.828	0.815	0.823	0.795	0.804	0.815	0.823
	2	-	2	2	2	-	-	-	-	-
<i>hepatitis</i>	0.745	0.849	0.745	0.760	0.759	0.722	0.689	0.810	0.796	0.853
	-	-	-	-	-	-	-	-	-	a,b
<i>page-blocks-1-3-vs-4</i>	0.790	0.748	0.932	0.904	0.909	0.762	0.692	0.714	0.697	0.695
	-	-	-	-	-	-	-	-	-	-
<i>pima</i>	0.722	0.500	0.725	0.727	0.723	0.713	0.653	0.706	0.708	0.707
	2	-	2	2	2	b	-	-	b	b
<i>shuttle-c0-vs-c4</i>	0.996	0.508	0.996	0.996	0.996	0.991	0.994	0.992	0.996	0.996
	2	-	2	2	2	-	-	-	-	-
<i>shuttle-c2-vs-c4</i>	1.000	0.996	0.996	0.946	0.996	0.984	0.900	0.900	0.946	0.946
	-	-	-	-	-	-	-	-	-	-
<i>vowel0</i>	0.772	0.533	0.767	0.765	0.799	0.881	0.830	0.835	0.874	0.829
	2	-	2	2	2	-	-	-	-	-
<i>wisconsin</i>	0.960	0.513	0.919	0.915	0.907	0.962	0.958	0.955	0.965	0.959
	2	-	2	2	2	-	-	-	-	-
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	0.513	0.500	0.534	0.503	0.526	0.549	0.472	0.605	0.529	0.604
	-	-	-	-	-	-	-	-	-	-
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	0.602	0.500	0.547	0.509	0.562	0.560	0.486	0.900	0.856	0.851
	2,4	-	2,4	-	-	b	-	a,b	a,b	a,b
<i>yeast-0-3-5-9-vs-7-8</i>	0.508	0.500	0.539	0.538	0.538	0.573	0.513	0.604	0.631	0.645
	-	-	-	-	-	-	-	-	b	b
<i>yeast-0-5-6-7-9-vs-4</i>	0.500	0.500	0.500	0.500	0.507	0.499	0.501	0.775	0.775	0.777
	-	-	-	-	-	-	-	a,b	a,b	a,b
<i>yeast-2-vs-4</i>	0.570	0.500	0.530	0.560	0.550	0.598	0.697	0.869	0.897	0.886
	2	-	-	-	-	-	-	a	a,b	a,b
<i>yeast-2-vs-8</i>	0.500	0.500	0.500	0.500	0.500	0.667	0.644	0.773	0.773	0.773
	-	-	-	-	-	-	-	-	-	-
<i>yeast1</i>	0.585	0.609	0.690	0.703	0.688	0.518	0.656	0.665	0.660	0.661
	-	-	1	1	1	-	a	a	a	a
<i>yeast3</i>	0.542	0.575	0.911	0.897	0.908	0.597	0.729	0.905	0.889	0.903
	-	-	1,2	1,2	1,2	-	a	a,b	a,b	a,b
<i>yeast5</i>	0.500	0.500	0.500	0.500	0.500	0.829	0.930	0.956	0.956	0.933
	-	-	-	-	-	-	a	a	a	a

Table 3: Balanced accuracy score