Model	Parameters	Class	Training Accuracy				Test - al			D ecall			0 featur		Test - 1			D acall
WIOGCI	1 arameters	0	Accuracy	0.82	0.97	0.72	Accuracy	0.82	0.97	0.72	Accuracy	0.9	0.94	0.86	1	0.9		0.86
Naïve-Bayes (Gaussian)		1	0.7	0.21	0.16	0.29	0.60	0.23	0.18	0.32	0.01	0.14	0.15	0.13		0.14		0.13
		2	0.7	0.36	0.23	0.78	0.69	0.35	0.23	0.78	0.81	0.49	0.37	0.74	0.81	0.5	0.37	0.75
		3		0.08	0.05	0.19		0.09	0.05	0.21		0.06	0.04	0.11		0.04	0.03	0.08
Naïve-Bayes (Categorical)		0	0.93	0.97	0.97	0.96	0.91	0.95	0.97	0.94		0.94	0.93	0.95	13 0.85	0.93		0.94
		2		0.71	0.75	0.66		0.52	0.59	0.46	0.88	0.22	0.66	0.13		0.04		0.03
		3		0.78	0.69	0.89		0.72	0.62	0.83		0.52	0.44	0.63		0.43		0.32
Logistic Regression		0		0.95	0.92	0.97		0.95	0.92	0.95		0.94	0.92	0.96		0.94		0.95
[album, non-album]	C=0.1, penalty='l2'	1	0.904	0.53	0.7	0.43	0.903	0.53	0.69	0.53	0.887	0.48	0.57	0.41	0.886	0.48	0.57	0.41
SVM Linear Binary		0	0.87	0.92	0.95	0.9	0.87	0.92	0.95	0.9	0.89	0.94	0.93	0.94	0.89	0.94	0.93	0.94
[album, non-album]	max_iter=25000, loss=squared_hinge	1		0.55	0.49	0.64		0.55	0.48	0.64		0.53	0.57	0.5		0.53		0.5
	C= 0.01,random_state=42, max_iter = 3000,loss="squared_hinge"	0		0.93	0.89	0.97	0.85	0.93	0.89	0.96	0.84	0.92	0.88	0.96	0 0.84	0.91		0.95
		2	0.85	0.12	0.13	0.11		0.11	0.11	0.1		0.01	0.25	0.08		0.15		0.09
		3		0	0.50	0.00		0.11	0.0	0.00		0.02	0.01	0.04		0.02		0.05
		0		0.96	0.94	0.99		0.96	0.93	0.98		0.94	0.91	0.97		0.94	0.91	0.97
SVM NonLinear	kernel = rbf. gamma= auto	1	0.92	0.28	0.82	0.17	0.91	0.26	0.77	0.16	0.88	0.04	0.61	0.02	0.88	0.04	0.59	0.02
		2	3.72	0.67	0.67	0.67		0.65	0.65	0.65		0.48	0.48		0.48	0.48		0.48
		3		0.58	0.97	0.42		0.5	0.95	0.34		0 04	0.01	0.07		0 94		0 97
SVM NonLinear	kernel = polynomial, gamma= auto	0		0.96	0.94	0.98	0.92	0.96	0.94	0.98	0.88	0.94	0.91	0.97	0.88	0.94		0.97
		2	0.92	0.32	0.67	0.67		0.66	0.66	0.66		0.02	0.61	0.52		0.02		0.52
		3		0.67	0.97	0.51		0.55	0.88	0.4		0.02	1	0.01		0.01	1	0.01
Rule-Based Classifier	k=1, prune_size=0.33	0	0.922	0.95	0.92	1	0.921	0.93	0.93	0.99	0.874	0.93	0.88	1	0.873	0.93	0.88	0.99
		1		0.44	0.94	0.29		0.41	0.84	0.28		0.01	0.62	0.01				0.01
		2		0.64	0.91	0.5		0.66	0.88	0.53		0.04	0.5	0.02		0.104		0.06
	n estimators=100, criterion="gini",	0		0.57	0.94	0.41		0.52 0.97	0.8	0.39		0.01	0.29	0.01		0.01		0.01
EC	man dansh_17 min aamalaa anlis_2	1	0.95	0.97	0.72	0.92	0.94	0.74	0.66	0.84	0.82	0.35	0.27	0.51		0.33		0.82
Random Forest		2		0.83	0.72	0.97		0.79	0.69	0.93		0.59	0.45	0.86		0.52	0.39	0.76
		3		0.83	0.72	0.99		0.7	0.66	0.75		0.41	0.27	0.92		0.16	0.11	0.33
EC-Bagging (Decision Tree)	criterion="gini", max_depth=9, min_samples_split=10, min_samples_leaf=10	0	0.93	0.96	0.94	0.99	0.92	0.96	0.94	0.99	0.89	0.94	0.91	0.98	0.88	0.94		0.97
		1		0.42	0.8	0.28		0.43	0.78	0.3		0.07	0.74	0.04				0.03
		3		0.71	0.74	0.69		0.69	0.71	0.68		0.48	0.51	0.45		0.45		0.43
		0		0.99	0.99	0.99		0.97	0.96	0.99		0.95	0.95	0.95		0.92		0.93
EC-Boosting (Decision Tree)	min_samples_spiit=10, min_samples_leaf=10	1	0.98	0.88	0.91	0.85	0.94	0.65	0.76	0.57	0.89	0.45	0.43	0.47	0.83	0.12	0.13	0.12
		2		0.9	0.91	0.89		0.75	0.8	0.7	0.89	0.55	0.56	0.54		0.34	0.37	0.32
		3		0.98	0.98	0.97		0.6	0.92	0.44		0.75	0.78	0.72		0.15		0.1
EC-Bagging (Random Forest)		0	0.95	0.97	0.99	0.95	0.94	0.97	0.99	0.95	0.84	0.92	0.96	0.87	0.82	0.91		0.87
		2		0.79	0.72	0.87		0.74	0.68	0.8		0.34	0.3	0.39		0.19		0.21
		3		0.83	0.76	0.91		0.67	0.69	0.66		0.43	0.34	0.58		0.22		0.28
	n_estimators=100, criterion="gini", max_depth=17, min_samples_split=3, min_samples_leaf=3, max_features="	0		1	0.99	1		0.98	0.97	0.99		0.99	0.99	0.99	0.86	0.93	0.91	0.95
EC-Doosting		1	0.99	0.96	0.99	0.94	0.96	0.78	0.94	0.66	0.97	0.9	0.91	0.89		0.14	0.2	0.11
(Random Forest)	auto", random_state=10, class_weight="	2	3.55	0.95	0.96	0.94	3.70	0.85	0.88	0.81	0.57	0.86	0.83	0.89		0.4		0.38
	Datanecu	3		1	1	0.00		0.69	0.96	0.54		0.99	0.99	1		0.23		0.14
Single hidden layer	activation: identity learning_rate_inits: 0.02 hidden_layer_size: 40	1		0.95	0.91	0.99	0.91	0.96	0.94	0.98	0.87	0.94	0.92	0.96	0.88	0.01	0.92	0.96
Neural Network		2	0.89	0.51	0.67	0.41		0.56	0.58	0.55		0.48	0.42	0.54		0.46		0.55
		3		0	0	0		0.04	0.75	0.02		0	0	0		0	0	0
Single hidden layer Neural Network	activation: identity learning_rate_inits: 0.001	0		0.95	0.92	0.97	0.9	0.95	0.94	0.97	0.87	0.93	0.88	1	0.89	0.94	0.9	1
		1	0.89	0.13	0.38	0.08			0.44	0.12		0	0	0		0		0
	hidden_layer_size: 350	3		0.57	0.57	0.57		0.59	0.52	0.69		0.18	0.54	0.11		0.17		0.1
Deep Neural Network	activation: identity learning_rate_inits: 0.001 hidden_layer_sizes: 40, 40	0		0.01	0.03	0.01	0.91	0.04	0.26	0.02	0.87	0.94	0.9	0.97	0.89	0.94		0.97
		1		0.75	0.35	0.78		0.2	0.38	0.13		0.01	0.28	0.01		0		0.57
		2	0.89	0.55	0.6	0.5		0.58	0.53	0.64	0.87	0.44	0.46	0.42		0.43		0.43
		3		0	0	0		0	0	0		0	0	0		0	0	0
Deep Neural Network	activation: identity learning_rate_inits: 0.001 hidden_layer_sizes: 40, 20, 8	0		0.95	0.92	0.98	0.91	0.96	0.93	0.98	0.87	0.93	0.87	1	0.89	0.94		1
		1	0.89	0.11	0.41	0.07		0.12	0.45	0.07		0	0	0				0
		2		0.56	0.61	0.51		0.59	0.55	0.62		0.09	0.47	0.05		0.06		0.03
		3		0	0	0		0	0	0		0	0	0		0	0	0