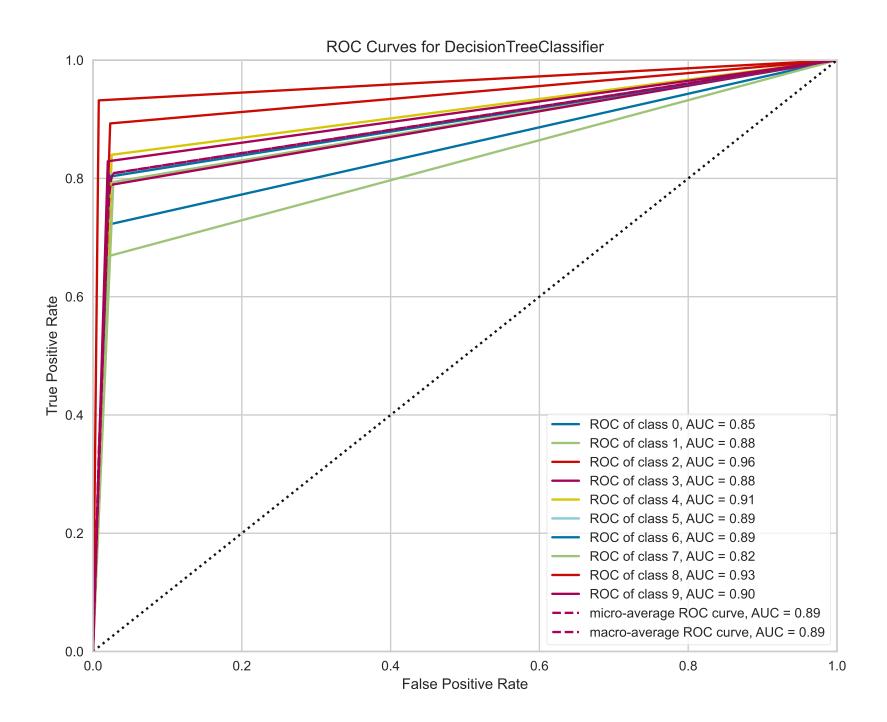
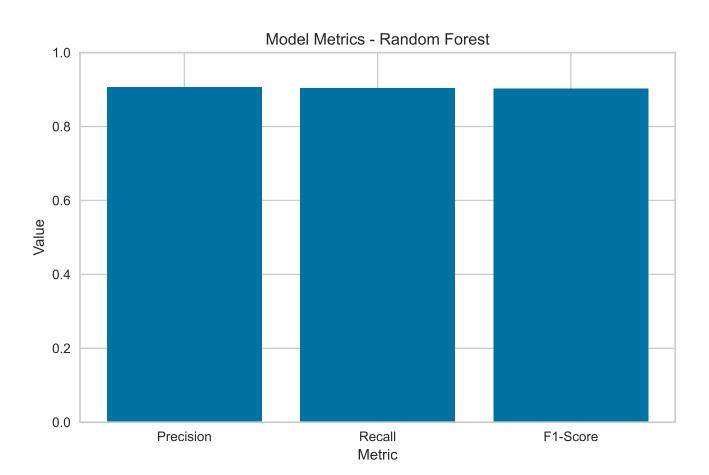


## Decision Trees - Confusion Matrix

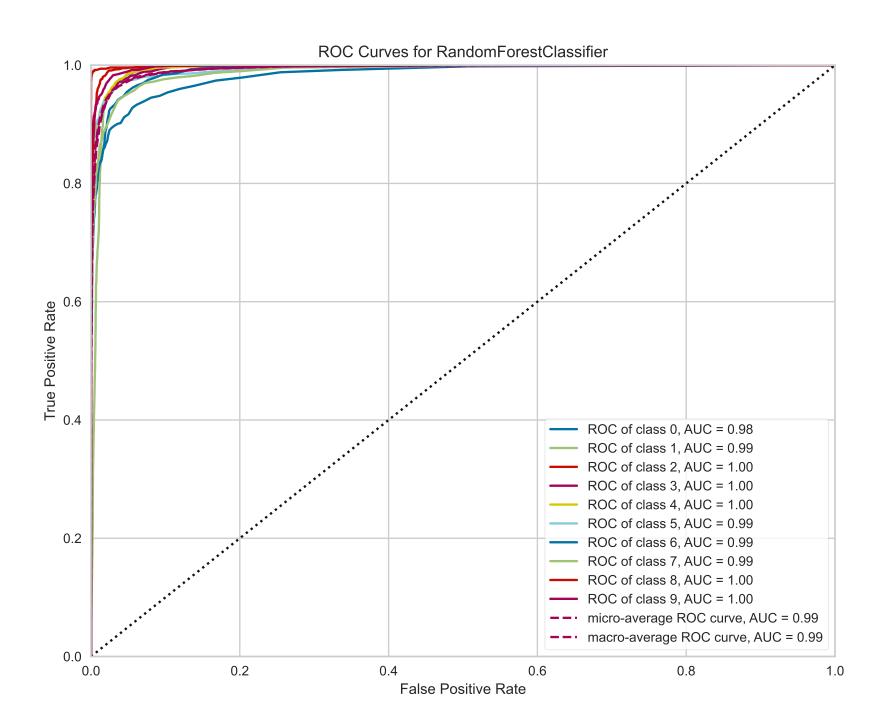
0	722	158	9	24	9	6	1	10	42	19	
<del>-</del>	96	794	14	29	5	12	7	5	26	12	
8	2	3	932	9	2	26	8	5	8	5	
က	12	7	13	789	23	32	22	79	11	12	
True Label 5 4	3	1	1	30	840	56	12	21	19	17	
True 5	6	9	5	25	104	807	6	11	19	8	
9	5	8	6	41	23	31	803	57	5	21	
7	14	10	9	48	28	10	132	669	13	67	
œ	28	15	12	3	11	12	5	3	893	18	
6	23	35	1	4	22	9	5	7	65	829	
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9	

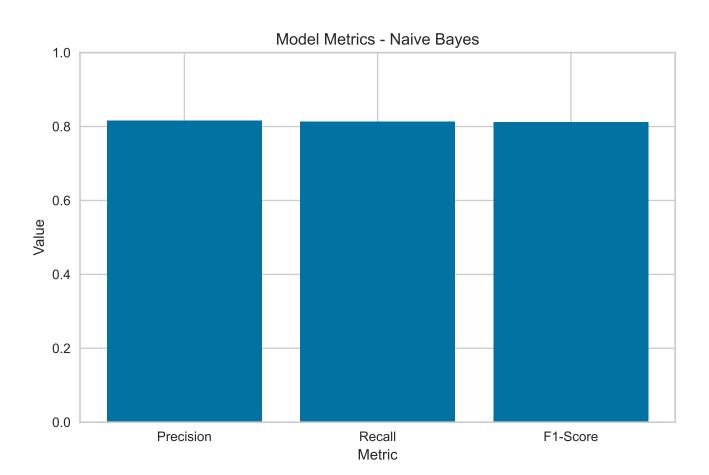




Random Forest - Confusion Matrix

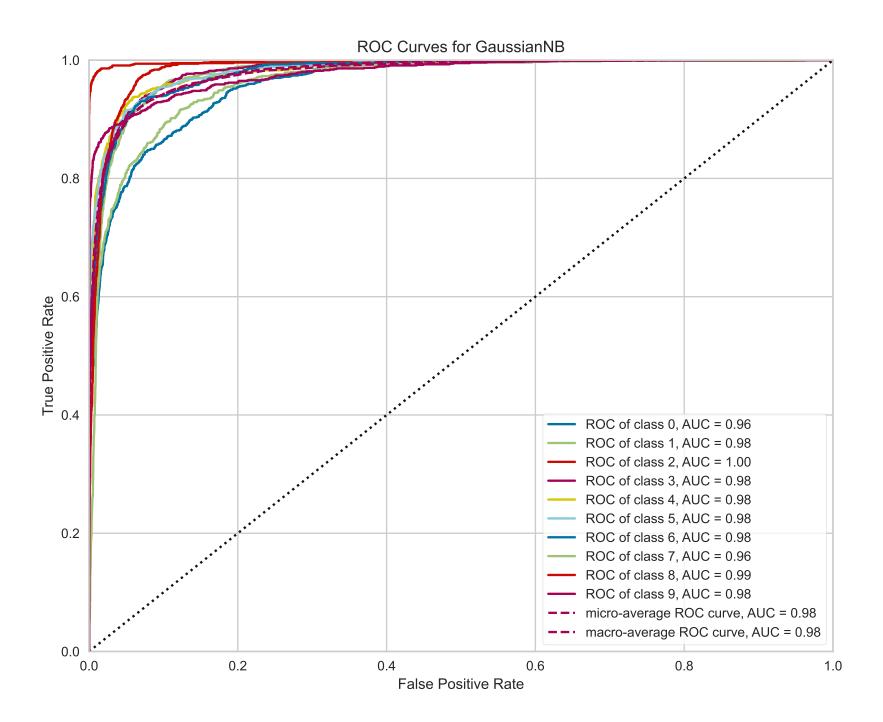
				Nanuoni	1 01651 -	Comusic	אווואווווווווווווווווווווווווווווווווו	(			_		
0	804	150	0	19	3	0	2	2	14	6			
<del>-</del>	14	934	1	19	7	3	0	0	15	7		800	)
7	2	1	986	3	0	5	1	0	2	0			
က	9	6	2	927	15	15	6	18	2	0		600	)
True Label 5 4	0	1	0	16	945	20	2	2	8	6			
True 5	0	1	0	8	92	883	3	3	5	5		400	)
9	4	4	3	22	21	22	884	21	2	17			
7	4	7	0	36	16	3	95	786	6	47		200	1
œ	15	3	2	2	3	2	1	1	970	1		200	,
o	3	4	0	3	10	0	7	2	50	921			
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		0	

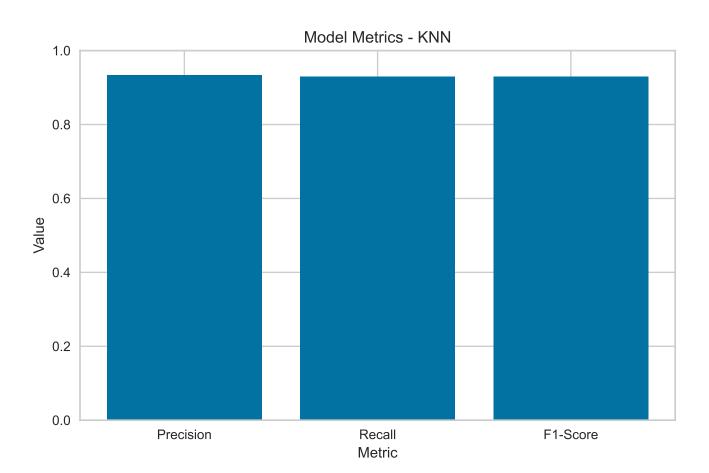




Naive Bayes - Confusion Matrix

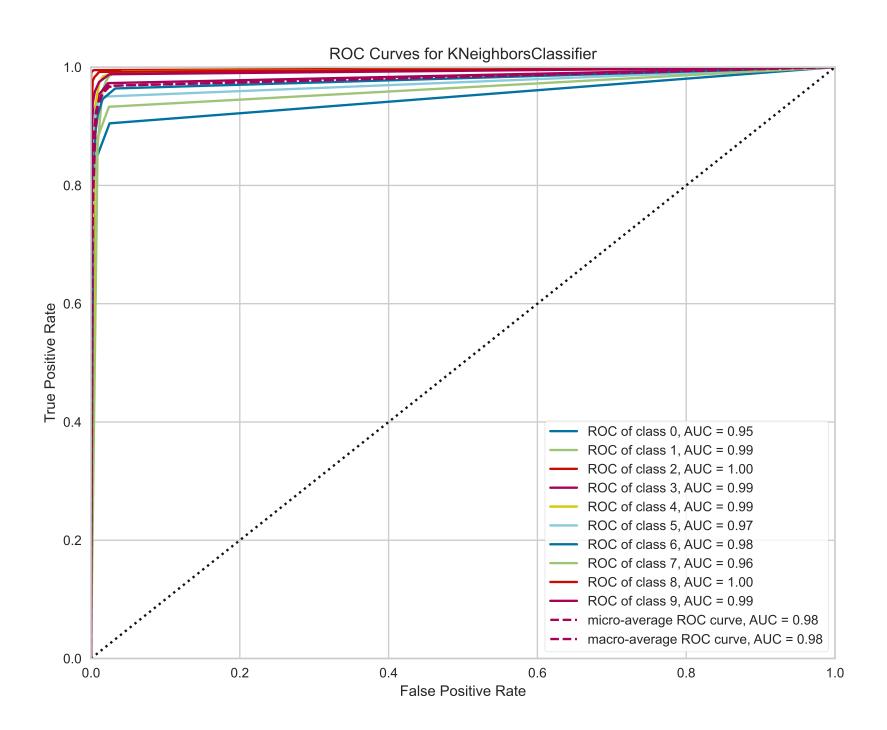
				rtarvo L	sayoo c	2011140101	Tiviation				_	
0	644	232	17	33	10	1	2	10	43	8		
<b>←</b>	11	839	4	70	10	5	0	3	46	12		800
2	11	1	977	4	0	3	2	1	0	1		
က	16	13	1	817	26	17	19	91	0	0		600
True Label 5 4	0	0	1	17	877	33	4	26	32	10		
True 5	0	2	5	20	151	777	6	15	20	4		400
9	6	5	34	14	25	43	811	47	0	15		
7	11	9	8	49	29	2	170	707	4	11		200
80	85	25	22	3	4	5	3	2	846	5		200
თ	9	8	1	1	22	0	9	9	102	839		0
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		0

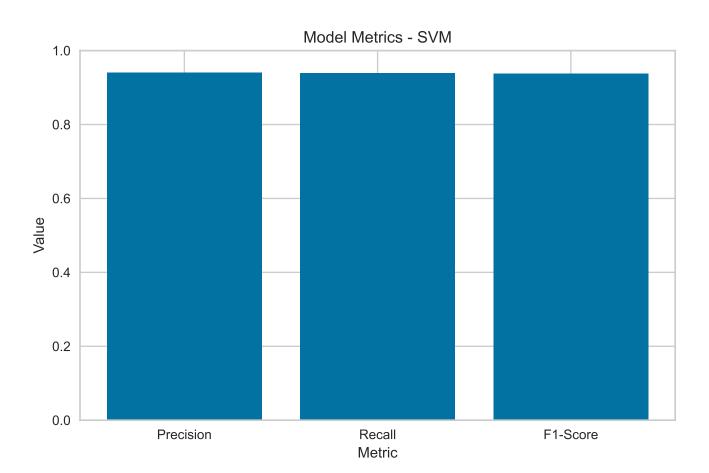




KNN - Confusion Matrix

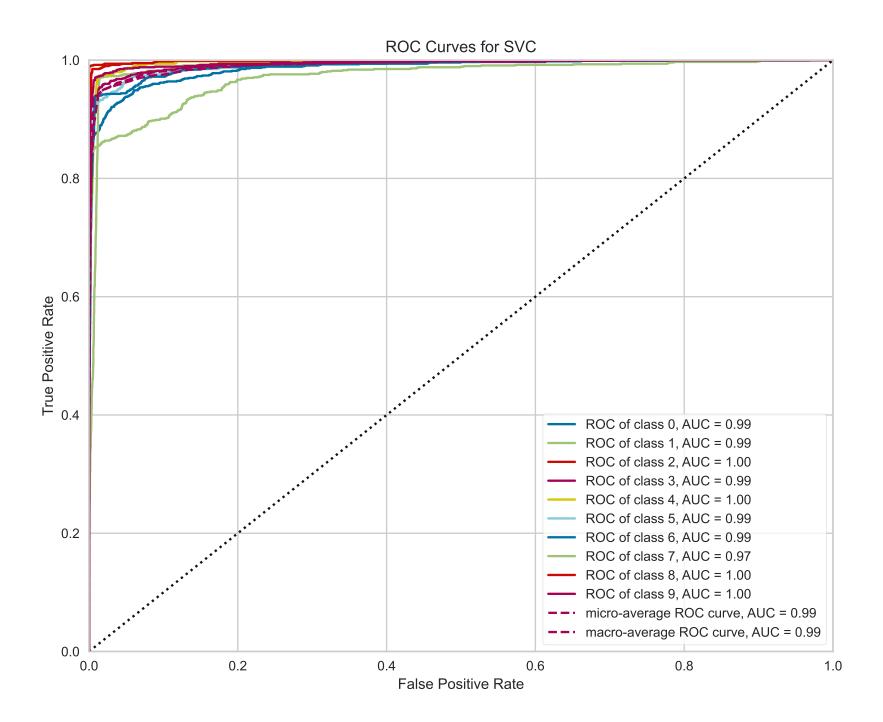
_											_	
0	817	156	1	10	4	0	0	1	7	4		
~	7	981	0	1	5	0	1	0	3	2		800
7	2	1	991	3	0	1	2	0	0	0		000
က	5	15	1	937	13	16	0	12	1	0		600
abel 4	0	1	0	2	985	5	1	2	1	3		000
True Label 5 4	0	0	0	7	79	905	2	1	3	3		400
9	1	2	0	8	22	8	926	23	0	10		400
7	8	2	0	29	31	2	80	823	1	24		200
∞	12	2	1	0	2	2	0	0	978	3		200
o	4	8	0	0	9	1	6	4	7	961		
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9	1	0





SVM - Confusion Matrix

0	862	111	0	9	2	0	1	3	9	3		
~	7	970	1	10	2	0	2	0	5	3		800
2	3	0	990	3	1	0	1	1	1	0		000
က	5	5	1	936	16	18	5	14	0	0		600
abel 4	1	0	0	8	974	6	2	0	3	6		000
True Label 5 4	0	0	0	5	68	919	1	2	5	0		400
9	1	1	0	5	15	11	941	9	0	17		400
7	16	4	0	19	18	1	67	845	2	28		200
∞	6	0	1	0	1	4	0	0	985	3		200
O	5	7	0	0	5	0	2	0	15	966		
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		0



## Model Comparison - PCA 30 components

Model	Precision	Recall	F1-Score
Decision Trees	0.8074335443427711	0.8078	0.806773130012807
Random Forest	0.9067508701567825	0.903999999999999	0.9034070387208256
Naive Bayes	0.8164343421692013	0.8134	0.8122380147048691
KNN	0.9338906823829006	0.9304	0.9300599035679407
SVM	0.9404738030841935	0.9388	0.9385014105497413