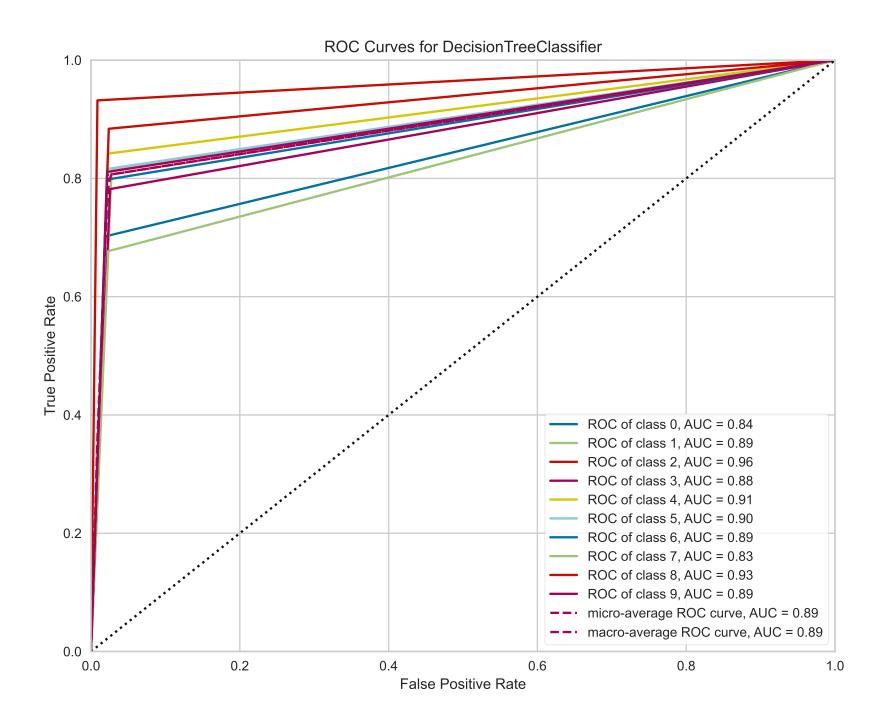
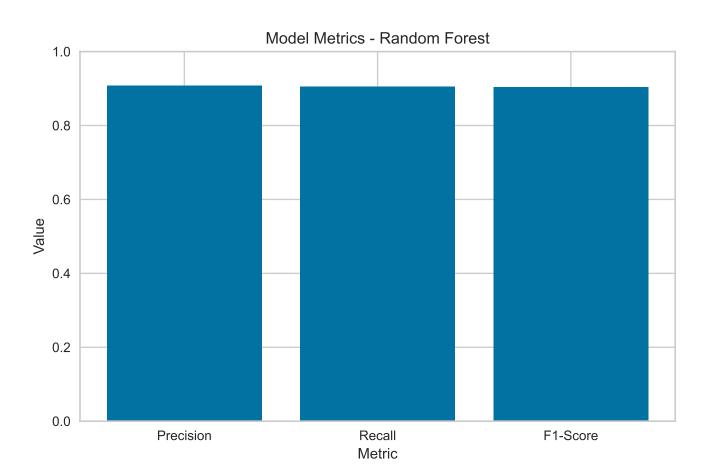


Decision Trees - Confusion Matrix

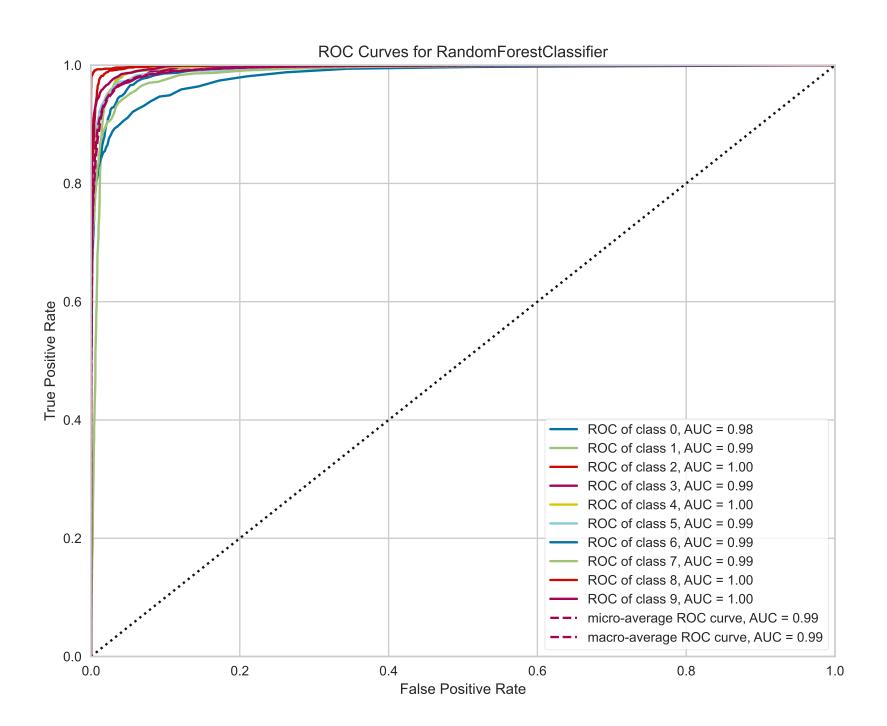
0	702	164	12	33	2	7	6	11	43	20	
~	85	813	9	23	3	14	6	10	24	13	
7	5	2	932	9	0	25	9	7	6	5	
က	12	8	14	782	28	31	26	82	7	10	
True Label 5 4	1	2	1	40	842	50	11	13	17	23	
True 5	4	6	12	21	93	816	7	8	20	13	
9	5	8	7	35	20	28	798	62	16	21	
7	11	10	8	55	22	8	116	677	13	80	
œ	32	16	10	9	9	20	4	4	884	12	
o	18	33	5	6	28	11	7	12	69	811	
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9	

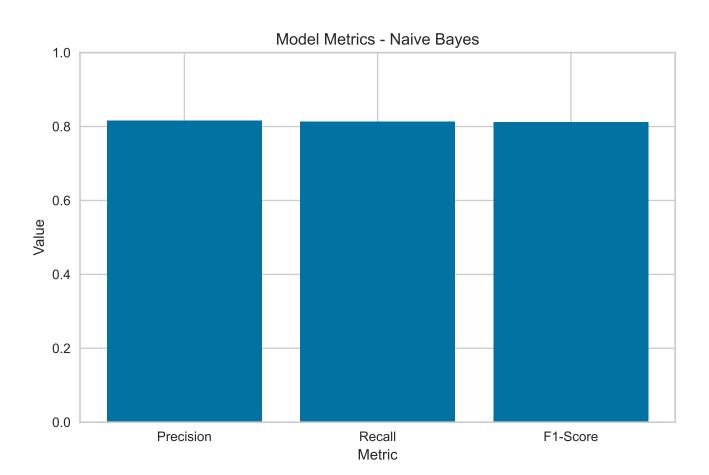




Random Forest - Confusion Matrix

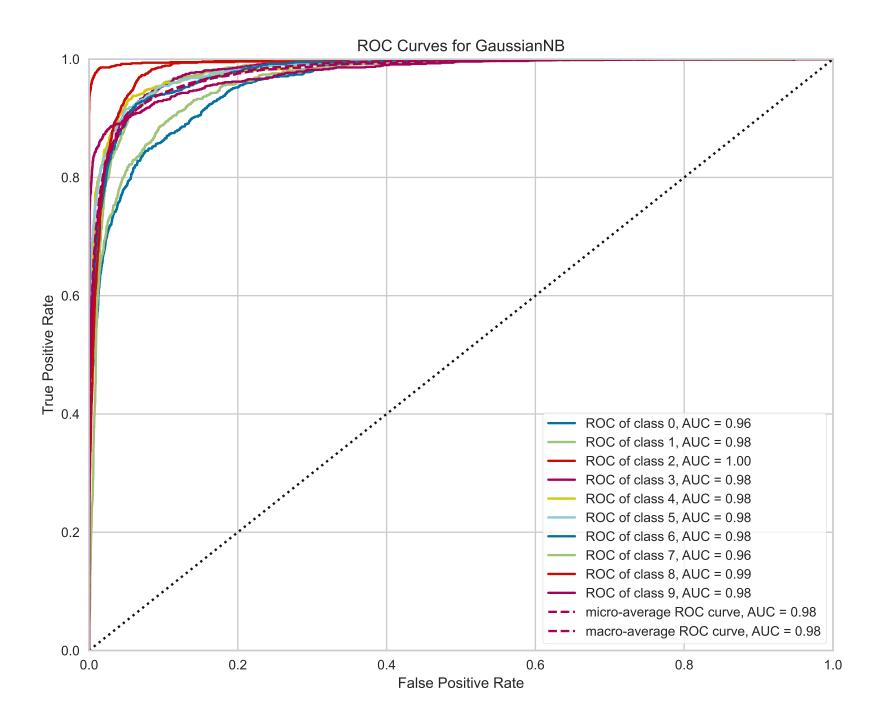
				Nanuunn	i orest -	Comusi	JII Walii	^				
0	805	144	2	21	3	0	2	2	16	5		
←	12	941	1	21	3	3	0	0	14	5		800
7	4	1	984	4	0	6	1	0	0	0		
က	10	7	2	928	11	17	5	17	3	0		600
True Label 5 4	0	1	0	20	943	17	1	4	9	5		
True 5	0	1	0	8	90	888	3	2	4	4		400
9	3	5	0	20	19	20	901	13	1	18		
7	8	6	0	35	14	3	112	769	7	46		200
∞	12	4	1	2	3	3	1	0	973	1		200
თ	3	4	0	1	12	1	7	4	49	919		
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		0

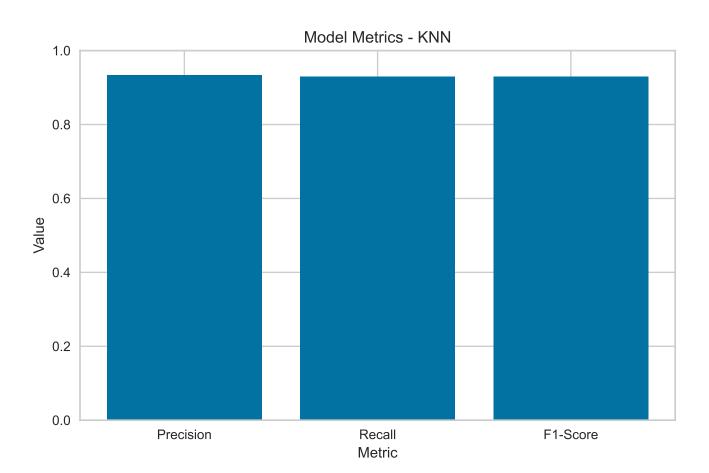




Naive Bayes - Confusion Matrix

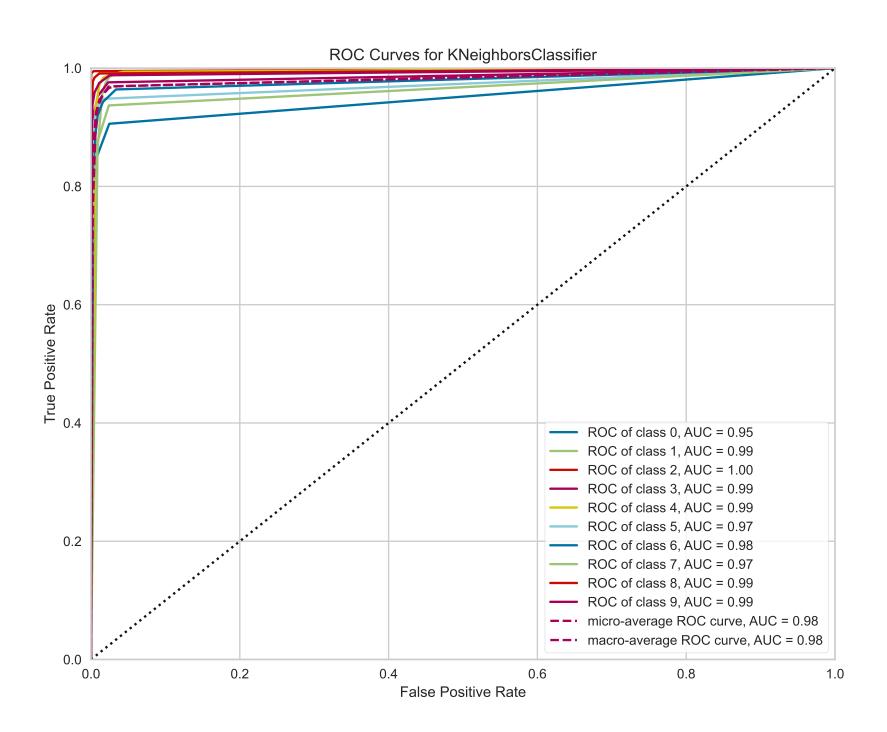
				rtarro L	Jayoo C	2011140101	Tiviation				_	
0	644	235	17	34	8	0	2	10	42	8		
←	11	842	4	67	12	5	0	2	45	12		800
2	11	1	978	3	0	3	2	1	0	1		
က	16	11	1	818	27	17	19	91	0	0		600
True Label 5 4	0	0	1	16	879	33	4	26	31	10		
True 5	0	2	4	22	153	776	6	14	20	3		400
9	6	5	35	13	25	42	808	52	0	14		
7	10	9	7	55	28	2	173	700	4	12		200
8	84	25	22	3	4	5	3	1	848	5		200
თ	9	7	2	1	22	0	8	10	102	839		•
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		0

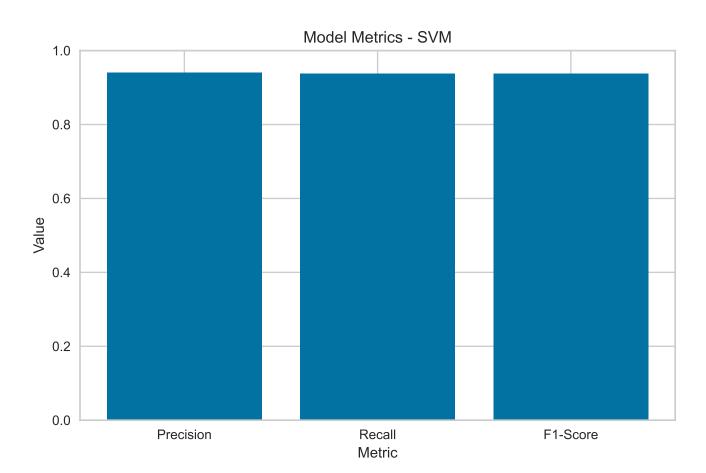




KNN - Confusion Matrix

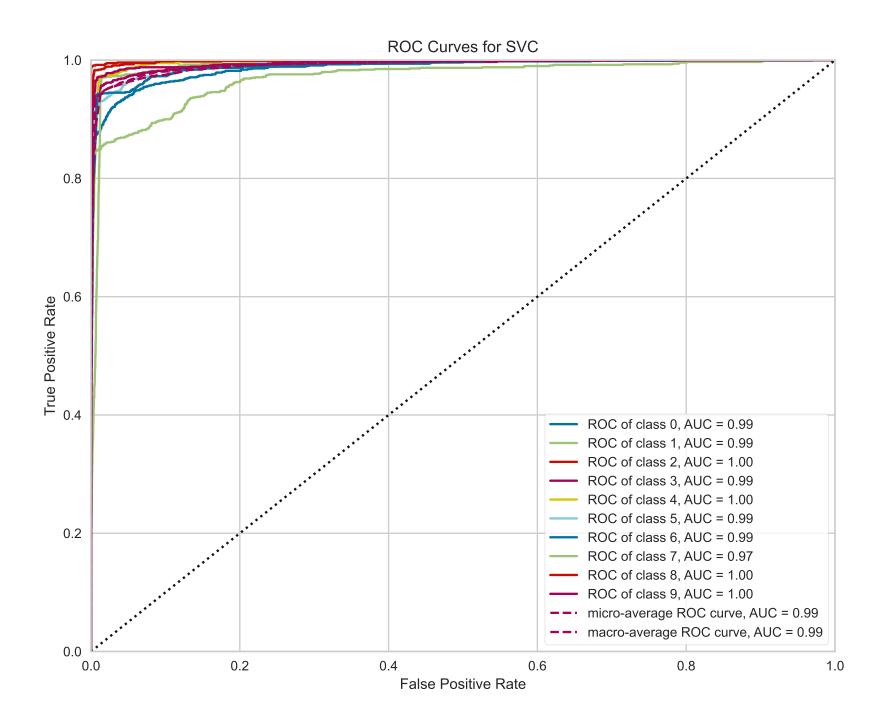
0	817	156	1	8	5	0	0	2	7	4		
~	8	980	0	1	5	0	0	0	4	2		800
2	2	1	991	3	0	1	2	0	0	0		000
က	6	15	2	934	14	17	0	12	0	0		600
True Label 5 4	0	1	0	2	985	5	1	2	1	3		000
True I 5	0	0	0	9	79	905	2	1	2	2		400
9	1	1	0	8	25	9	926	22	0	8		400
7	9	2	0	27	30	2	79	825	1	25		200
∞	12	1	1	0	2	3	0	0	978	3		200
თ	3	8	0	0	8	1	7	4	9	960		•
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		0





SVM - Confusion Matrix

	SVIVI - COMUSION IVIALITA												
0	860	113	0	9	3	0	1	3	8	3			
~	8	970	0	10	2	0	2	0	5	3		8	300
2	3	0	989	3	1	1	1	1	1	0			
က	5	5	1	938	15	19	4	13	0	0		e	600
True Label 5 4	1	0	0	9	974	6	2	0	3	5			,,,,
True 5	0	0	0	5	67	920	1	2	5	0		4	400
9	1	1	0	5	15	11	945	7	0	15		,	100
7	17	4	0	21	17	1	69	841	2	28			200
∞	6	0	1	0	2	4	1	0	983	3		2	100
O	6	6	0	0	5	0	1	0	17	965			_
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		C	J



Model Comparison - PCA 30 components

Model	Precision	Recall	F1-Score
Decision Trees	0.8053782509220089	0.8057000000000001	0.8046281789436222
Random Forest	0.90801587005272	0.9051	0.9043792708011622
Naive Bayes	0.8163116953566556	0.8131999999999999	0.8119793203450658
KNN	0.9335281137418313	0.930099999999998	0.9297705903220634
SVM	0.9402129761758014	0.9385	0.9381823919643638