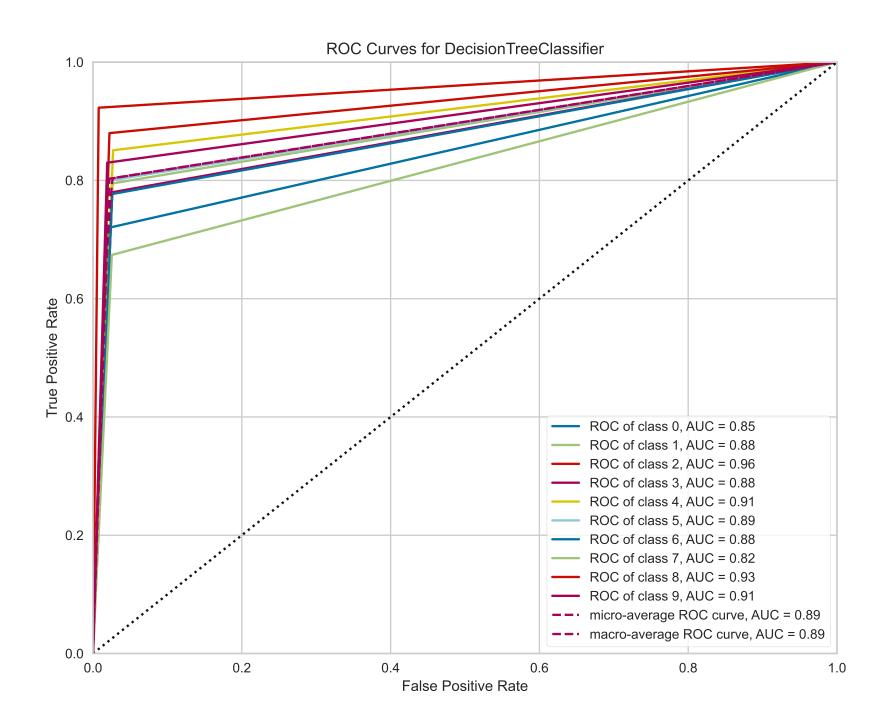
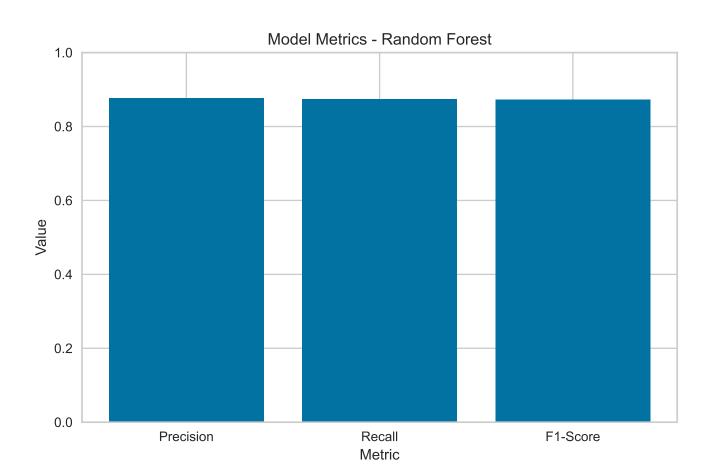


Decision Trees - Confusion Matrix

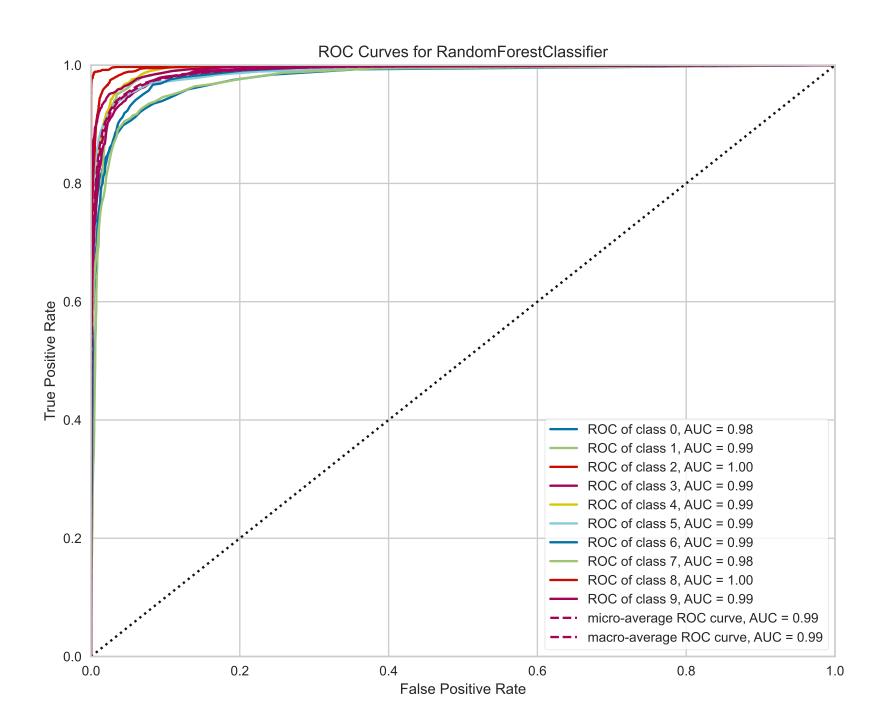
0	720	146	17	33	8	4	3	9	39	21	
~	85	795	8	33	9	13	4	15	24	14	
7	5	3	923	11	5	16	18	6	6	7	
က	12	15	7	780	34	30	26	60	13	23	
True Label 5 4	4	2	7	25	851	51	11	13	15	21	
True 5	7	6	8	15	115	799	8	9	17	16	
9	6	9	3	38	19	24	777	102	5	17	
7	12	8	7	57	26	4	157	674	18	37	
∞	45	16	11	12	1	13	1	5	880	16	
თ	18	32	1	9	26	9	4	9	62	830	
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9	

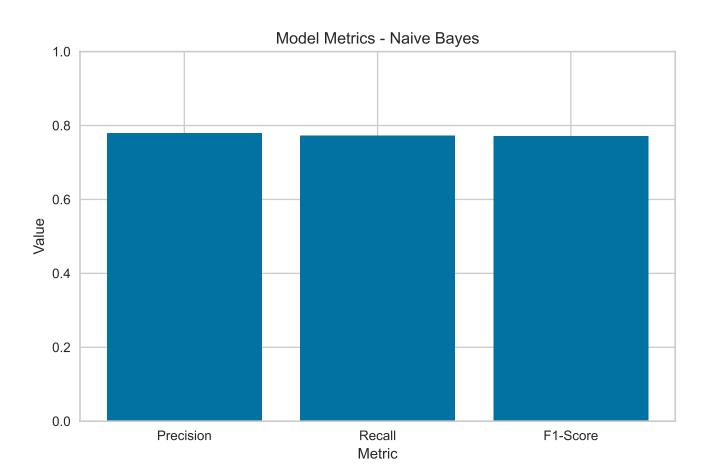




Random Forest - Confusion Matrix

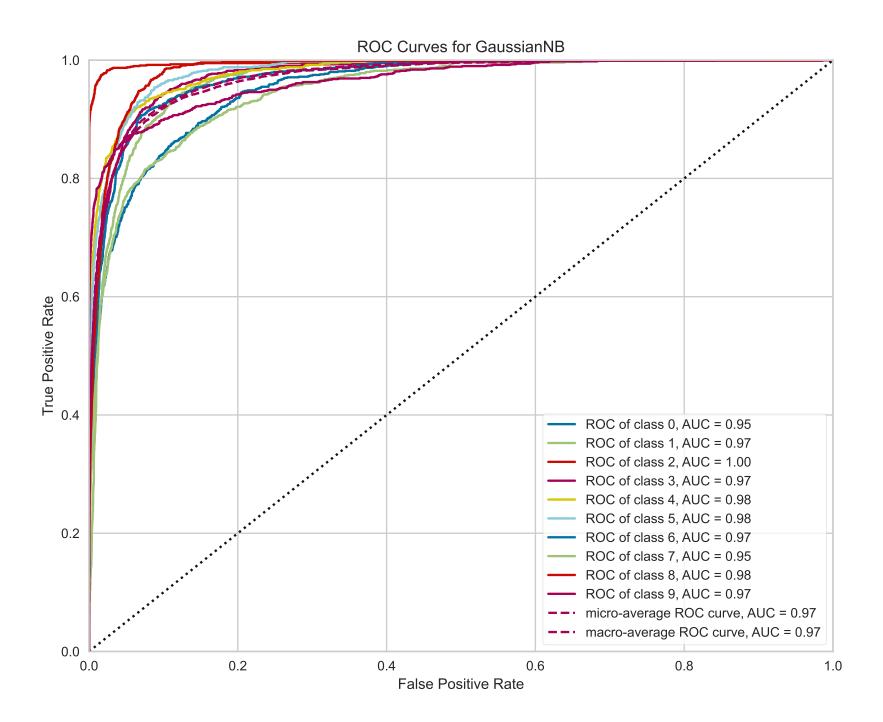
				Variuoiii	i orest -	Comusic	JII Waliix				_		
0	776	150	3	32	5	2	2	3	20	7			
-	33	908	0	24	6	3	0	2	18	6			800
2	4	2	980	3	0	6	0	3	1	1			
က	8	9	2	884	19	18	9	32	17	2		(600
True Label 5 4	0	2	0	24	925	33	2	3	7	4			
True 5	0	3	2	8	120	848	5	3	7	4		4	400
9	3	7	1	53	16	27	825	53	2	13			
7	5	9	2	42	23	1	129	746	12	31			200
∞	17	14	3	2	2	7	1	0	950	4			200
თ	6	9	0	4	19	0	6	5	56	895			
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		(0

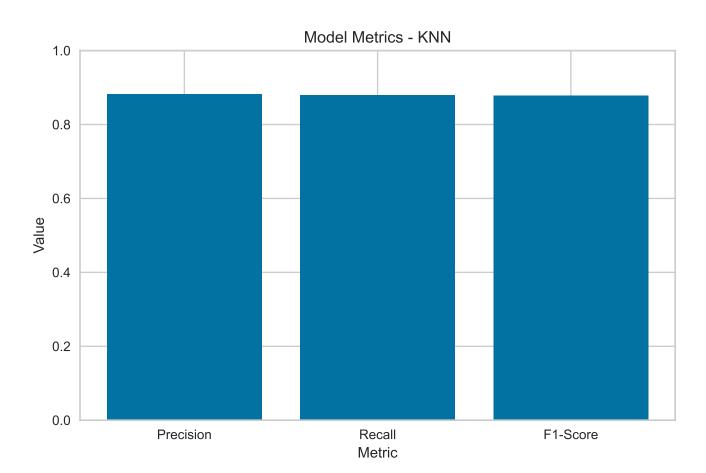




Naive Bayes - Confusion Matrix

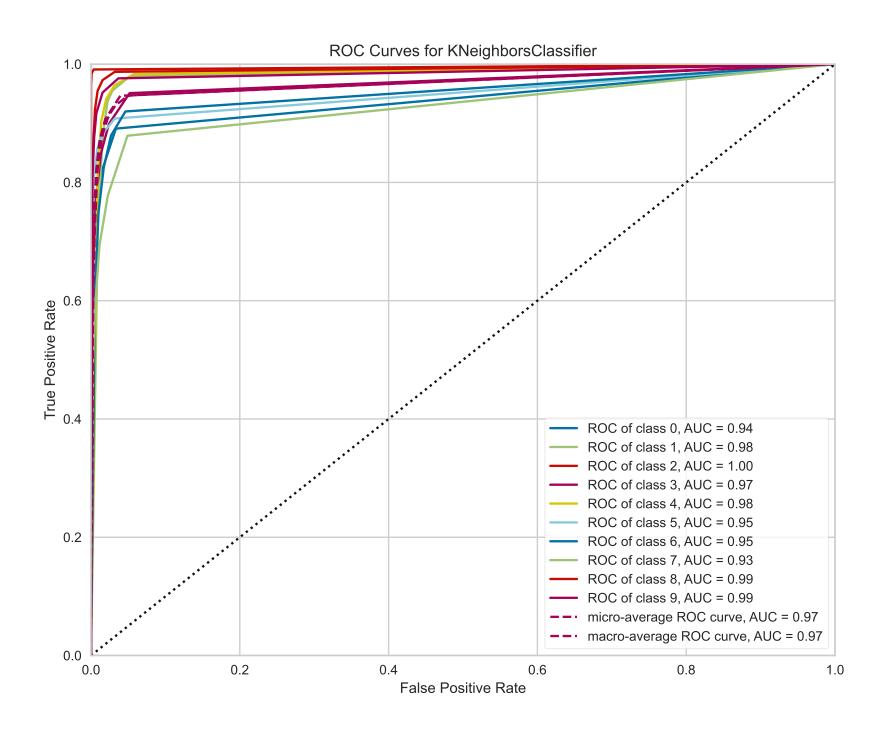
					,							
0	608	229	16	70	8	0	2	13	45	9		
~	25	749	9	121	8	2	0	0	66	20		800
7	9	1	967	3	0	15	1	3	1	0		
က	13	7	2	844	32	16	21	64	0	1		600
True Label 5 4	1	1	1	38	872	43	1	8	28	7		
True I 5	0	2	15	46	166	731	6	16	12	6		400
9	5	9	50	30	25	44	730	94	3	10		
_	9	17	4	80	50	1	177	650	2	10		200
80	89	35	26	6	4	3	2	4	823	8		200
თ	19	28	1	8	62	0	3	21	106	752		
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		0

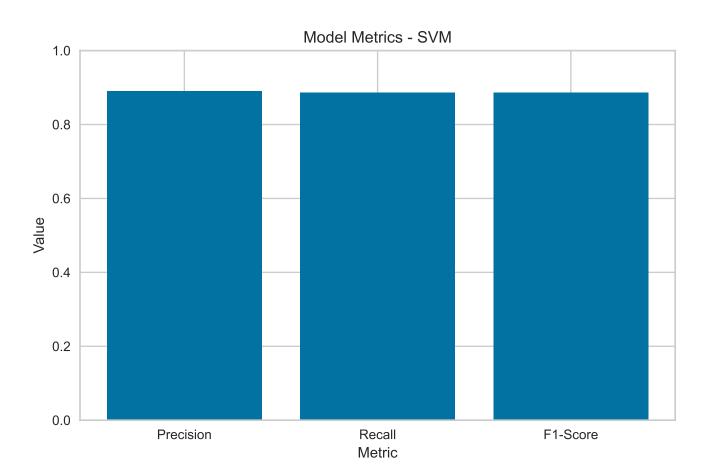




KNN - Confusion Matrix

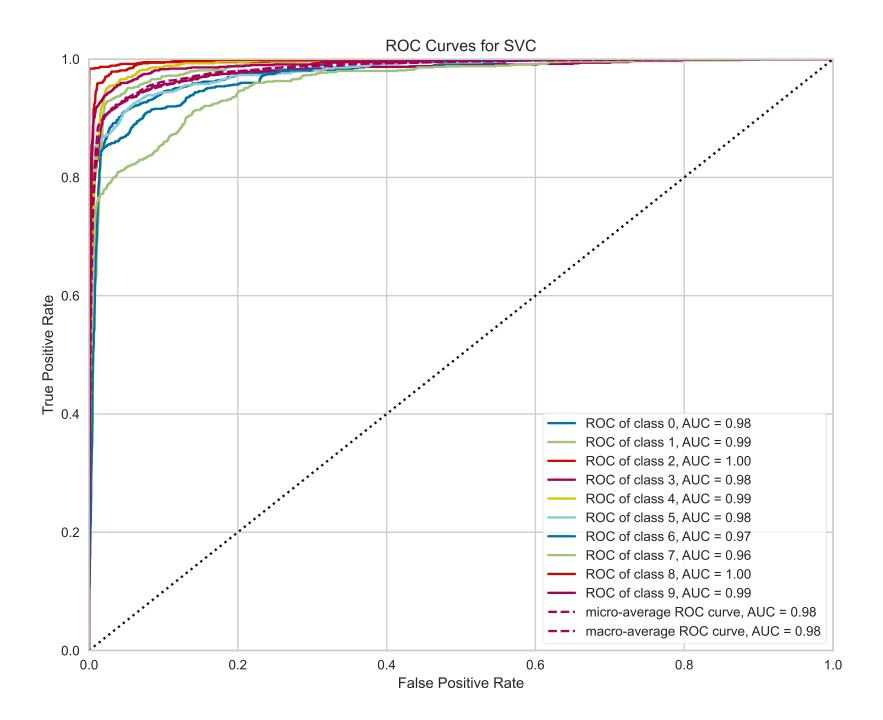
				1714	14 - 001111	usion ivic	att IX					
0	772	168	3	29	2	0	2	3	15	6		
~	16	946	0	14	5	1	1	1	10	6		800
2	4	1	979	3	0	8	1	2	1	1		
3	12	13	1	874	18	26	5	24	21	6		600
True Label 5 4	0	1	0	15	947	26	2	1	5	3		
True I 5	0	4	0	10	114	859	2	3	4	4		400
9	0	6	0	40	20	11	836	70	2	15		
7	8	11	0	50	29	5	162	706	5	24		200
∞	14	10	1	1	2	5	2	0	958	7		200
თ	6	11	0	0	22	2	7	5	27	920		0
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9		0





SVM - Confusion Matrix

	810	140	1	22	6	0	1	2	15	3	
0	010	140	ı	22	O	U	ı	۷	15	3	
_	19	925	0	27	3	3	0	4	11	8	
7	3	2	984	1	0	5	0	3	1	1	
က	8	11	0	887	20	22	7	27	18	0	
abel 4	0	1	0	14	948	22	0	0	5	10	
True Label 5 4	0	4	1	4	124	854	3	3	4	3	
9	0	10	1	49	20	21	846	40	0	13	
7	6	13	0	33	17	4	137	745	7	38	
_∞	8	14	4	0	4	4	3	0	959	4	
თ	2	13	0	0	23	0	6	3	40	913	
	0	1	2	3	4 Predicte	5 ed Label	6	7	8	9	



Model Comparison - PCA 10 components

Model	Precision	Recall	F1-Score
Decision Trees	0.802731792677126	0.8029	0.8021338060116661
Random Forest	0.8764859644788263	0.8737	0.8730371365099845
Naive Bayes	0.7795895052600346	0.7726	0.7712103792829805
KNN	0.8829702475496433	0.8797	0.8786107423627729
SVM	0.8906538627217129	0.8870999999999999	0.886549453435349