TRAIN OUTE	AL CODITINA		4.00UD4.0V	DECAL!	PRESIDION			
TRAIN SIZE	ALGORITHM	F1	ACCURACY	RECALL	PRECISION			
5%	SVM rbf+gamma(0.5)	0.31	0.47	0.48	0.75			
	SVM lin+gamma(0.5)	0.48	0.48	0.49	0.50			
5%	SVM sigmoid+gamma(scale)	0.58	0.58	0.58	0.58			
5%	SVM rbf+gamma(auto)	0.73	0.73	0.78	0.74		COLOR	MEAN
								Best
	SVM lin+C=0.02	0.51			0.53			Medium
5%	SVM lin+C=0.18	0.45	0.47	0.46	0.47			Worst
E0/	KNN minkowski i pojebboro =1	0.46	0.47	0.48	0.48			Single Type
	KNN minkowski + neighbors =1 KNN minkowski + neighbors =2	0.46	0.47 0.50	0.51	0.52			
	KNN minkowski + neighbors =3	0.46	0.47	0.48	0.48			
5%	KNN minkowski + neighbors =4	0.48	0.48	0.49	0.50			
5%	•	0.40	0.42	0.43	0.42			
	·							
5%	LogiReg lbfgs	0.48	0.48	0.49	0.50			
5%	LogiReg C = 50	0.47	0.47	0.48	0.48			
5%	LogiReg lbfgs + C= 50	0.47	0.48	0.48	0.49			
5%	NaiveBayes	0.40	0.44	0.44	0.44			
050/	0)44.16: (0.5)	0.55	0.04	0.70	0.04			
	SVM rbf+gamma(0.5)	0.55	0.61	0.76	0.61			
35% 35%	SVM lin+gamma(0.5) SVM sigmoid+gamma(0.5)	0.44 0.33	0.44 0.50	0.44 0.25	0.44			
	SVM rbf+gamma(auto)	0.65	0.68	0.76	0.68			
5576	g(uuto)		-					
35%	SVM lin+C=0.02	0.48	0.50	0.50	0.50			
35%	SVM lin+C=0.18	0.46			0.47			
35%	KNN minkowski + neighbors =1	0.73	0.73	0.73	0.73			
35%	KNN minkowski + neighbors =2	0.62	0.64	0.68	0.64			
	KNN minkowski + neighbors =3	0.67	0.66	0.67	0.67			
35%	KNN minkowski + neighbors =4	0.57	0.59	0.62	0.59			
35%	KNN minkowski + neighbors =5	0.62	0.63	0.64	0.63			
2524	LogiPog liblinggrup It I t	0.47	0.48	0.48	0.48			
	LogiReg liblinear+penalty=L1	0.47 0.45	0.44	0.48 0.45	0.48			
		0.44	0.45	0.45	0.45			
3376	Logitteg loigs 1 C= 30	0.44	0.43	0.40	0.43			
35%	NaiveBayes	0.44	0.46	0.45	0.46			
22.0								
55%	SVM rbf+gamma(0.5)	0.66	0.63	0.76	0.66			
55%	SVM lin+gamma(0.5)	0.38	0.47	0.45	0.48			
55%	SVM sigmoid+gamma(scale)	0.59	0.58	0.58	0.58			
55%	SVM rbf+gamma(auto)	0.72	0.73	0.78	0.73			
55%	SVM lin+C=0.02	0.34	0.49	0.50	0.50			
55%	SVM lin+C=0.18	0.38	0.48	0.45	0.48			
55%	KNN minkowski + neighbors =1	0.78	0.78	0.79	0.79			
55%	KNN minkowski + neighbors =2	0.76	0.76	0.81	0.77			
55%	KNN minkowski + neighbors =3	0.70	0.70	0.70	0.70			
55%	KNN minkowski + neighbors =4	0.67	0.68	0.71	0.68			
55%	KNN minkowski + neighbors =5	0.65	0.65	0.66	0.65			
55%	LogiReg liblinear+penalty=L1	0.44	0.48	0.48	0.49			
	LogiReg lbfgs+max_iter=50	0.47	0.49	0.50	0.50			
55%	LogiReg liblinear+penalty=L2	0.44	0.47	0.47	0.48			
5	NeiseDesse	0.40	0.42	0.42	0.42			
55%	NaiveBayes	0.43	0.43	0.43	0.43			
750/	SVM rbf+gamma(0.5)	0.86	0.86	0.87	0.86			
	SVM lin+gamma(0.5)	0.50	0.54		0.51			
	SVM rbf+gamma(auto)	0.91	0.91	0.92	0.92			
	SVM sigmoid+gamma(scale)	0.51	0.50					
		0.51	0.00	0.51	0.51			
75%		0.51		0.51	0.51			
	SVM lin+C=0.02	0.50	0.48	0.50	0.51			
75%	SVM lin+C=0.02 SVM lin+C=0.18							
	SVM lin+C=0.18	0.50	0.48	0.50	0.51			
75%	SVM lin+C=0.18 KNN minkowski + neighbors =1	0.50 0.50 0.86	0.48 0.50 0.86	0.50 0.50	0.51 0.51			
75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2	0.50 0.50 0.86 0.86	0.48 0.50 0.86 0.86	0.50 0.50 0.86 0.86	0.51 0.51 0.86 0.87			
75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3	0.50 0.50 0.86 0.86 0.85	0.48 0.50 0.86 0.86 0.84	0.50 0.50 0.86 0.86 0.85	0.51 0.51 0.86 0.87 0.85			
75% 75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4	0.50 0.50 0.86 0.86 0.85 0.73	0.48 0.50 0.86 0.86 0.84 0.74	0.50 0.50 0.86 0.86 0.85	0.51 0.51 0.86 0.87 0.85 0.75			
75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4	0.50 0.50 0.86 0.86 0.85	0.48 0.50 0.86 0.86 0.84	0.50 0.50 0.86 0.86 0.85	0.51 0.51 0.86 0.87 0.85			
75% 75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4	0.50 0.50 0.86 0.86 0.85 0.73	0.48 0.50 0.86 0.86 0.84 0.74	0.50 0.50 0.86 0.86 0.85	0.51 0.51 0.86 0.87 0.85 0.75			
75% 75% 75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5	0.50 0.50 0.86 0.86 0.85 0.73 0.77	0.48 0.50 0.86 0.86 0.84 0.74 0.78	0.50 0.50 0.86 0.86 0.85 0.78	0.51 0.51 0.86 0.87 0.85 0.75 0.78			
75% 75% 75% 75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1	0.50 0.50 0.86 0.86 0.85 0.73 0.77	0.48 0.50 0.86 0.86 0.84 0.74 0.78	0.50 0.50 0.86 0.86 0.85 0.78 0.79	0.51 0.51 0.86 0.87 0.85 0.75 0.78			
75% 75% 75% 75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2	0.50 0.50 0.86 0.86 0.85 0.73 0.77 0.53 0.51 0.56	0.48 0.50 0.86 0.86 0.84 0.74 0.78	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56	0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51			
75% 75% 75% 75% 75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2	0.50 0.50 0.86 0.86 0.85 0.73 0.77 0.53	0.48 0.50 0.86 0.86 0.84 0.74 0.78	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56	0.51 0.51 0.86 0.87 0.85 0.75 0.78			
75% 75% 75% 75% 75% 75% 75% 75%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg lbfgs + C= 50 NaiveBayes	0.50 0.50 0.86 0.86 0.73 0.77 0.53 0.51 0.56	0.48 0.50 0.86 0.86 0.74 0.78 0.52 0.51 0.56	0.50 0.50 0.86 0.86 0.86 0.78 0.79 0.53 0.51 0.56	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56			
75% 75% 75% 75% 75% 75% 75% 75% 75% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =3 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SVM rbf+gamma(0.5)	0.50 0.50 0.86 0.86 0.73 0.77 0.53 0.51 0.56	0.48 0.50 0.86 0.86 0.74 0.78 0.52 0.51 0.56	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56	0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56			
75% 75% 75% 75% 75% 75% 75% 75% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =3 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SVM rbf+gamma(0.5) SVM lin+gamma(0.5)	0.50 0.50 0.86 0.86 0.85 0.73 0.77 0.53 0.51 0.56 0.47	0.48 0.50 0.86 0.86 0.84 0.74 0.78 0.52 0.51 0.56	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56 0.47			
75% 75% 75% 75% 75% 75% 75% 75% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg lbfgs + C= 50 NaiveBayes SVM rbf+gamma(0.5) SVM rbf+gamma(0.5) SVM rbf+gamma(auto)	0.50 0.50 0.86 0.86 0.85 0.73 0.77 0.53 0.51 0.56 0.47	0.48 0.50 0.86 0.86 0.84 0.74 0.78 0.52 0.51 0.56 0.39	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56 0.52 0.84 0.49 0.90	0.51 0.86 0.87 0.85 0.75 0.75 0.53 0.51 0.56 0.47			
75% 75% 75% 75% 75% 75% 75% 75% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =3 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SVM rbf+gamma(0.5) SVM lin+gamma(0.5)	0.50 0.50 0.86 0.86 0.85 0.73 0.77 0.53 0.51 0.56 0.47	0.48 0.50 0.86 0.86 0.84 0.74 0.78 0.52 0.51 0.56	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56 0.47			
75% 75% 75% 75% 75% 75% 75% 75% 75% 80% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SoyM bf+gamma(0.5) SVM rbf+gamma(0.5) SVM lin+gamma(0.5) SVM rbf+gamma(auto) SVM sigmoid+gamma(scale)	0.50 0.50 0.86 0.86 0.86 0.73 0.77 0.53 0.51 0.56 0.47 0.81 0.49 0.89 0.50	0.48 0.50 0.86 0.86 0.84 0.74 0.78 0.52 0.51 0.56 0.39 0.81 0.50 0.89 0.50	0.50 0.50 0.86 0.86 0.86 0.78 0.79 0.53 0.51 0.56 0.52 0.84 0.49 0.90 0.50	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56 0.47 0.81 0.50 0.90 0.50			
75% 75% 75% 75% 75% 75% 75% 75% 80% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SVM rbf+gamma(0.5) SVM rbf+gamma(0.5) SVM rbf+gamma(scale) SVM rbf+gamma(scale)	0.50 0.50 0.86 0.86 0.85 0.73 0.77 0.53 0.51 0.56 0.47 0.81 0.49 0.89 0.50	0.48 0.50 0.86 0.86 0.84 0.74 0.78 0.52 0.51 0.56 0.39 0.81 0.50 0.89 0.50	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56 0.52 0.84 0.49 0.90 0.50	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56 0.47 0.81 0.50 0.90 0.73			
75% 75% 75% 75% 75% 75% 75% 75% 80% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SoyM bf+gamma(0.5) SVM rbf+gamma(0.5) SVM lin+gamma(0.5) SVM rbf+gamma(auto) SVM sigmoid+gamma(scale)	0.50 0.50 0.86 0.86 0.86 0.73 0.77 0.53 0.51 0.56 0.47 0.81 0.49 0.89 0.50	0.48 0.50 0.86 0.86 0.84 0.74 0.78 0.52 0.51 0.56 0.39 0.81 0.50 0.89 0.50	0.50 0.50 0.86 0.86 0.86 0.78 0.79 0.53 0.51 0.56 0.52 0.84 0.49 0.90 0.50	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56 0.47 0.81 0.50 0.90 0.50			
75% 75% 75% 75% 75% 75% 75% 75% 80% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SVM rbf+gamma(0.5) SVM rbf+gamma(0.5) SVM rbf+gamma(scale) SVM rbf+gamma(scale)	0.50 0.50 0.86 0.86 0.86 0.73 0.77 0.53 0.51 0.56 0.47 0.81 0.49 0.89 0.50	0.48 0.50 0.86 0.86 0.84 0.74 0.78 0.52 0.51 0.56 0.39 0.81 0.50 0.89 0.50	0.50 0.50 0.86 0.86 0.86 0.78 0.79 0.53 0.51 0.56 0.52 0.84 0.49 0.90 0.50	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56 0.47 0.81 0.50 0.90 0.73			
75% 75% 75% 75% 75% 75% 75% 75% 80% 80% 80% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SVM rbf+gamma(0.5) SVM rbf+gamma(0.5) SVM rbf+gamma(scale) SVM rbf+gamma(scale)+C=100 SVM rbf+gamma(scale)+C=150	0.50 0.50 0.86 0.86 0.86 0.73 0.77 0.53 0.51 0.56 0.47 0.81 0.49 0.89 0.50	0.48 0.50 0.86 0.86 0.86 0.74 0.78 0.52 0.51 0.56 0.39 0.81 0.50 0.50 0.73 0.69	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56 0.52 0.84 0.49 0.90 0.50 0.73 0.69	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56 0.47 0.81 0.50 0.90 0.50 0.73 0.68			
75% 75% 75% 75% 75% 75% 75% 75% 80% 80% 80% 80% 80% 80%	SVM lin+C=0.18 KNN minkowski + neighbors =1 KNN minkowski + neighbors =2 KNN minkowski + neighbors =2 KNN minkowski + neighbors =3 KNN minkowski + neighbors =4 KNN minkowski + neighbors =5 LogiReg liblinear+penalty=L1 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 LogiReg liblinear+penalty=L2 SVM rbf+gamma(0.5) SVM lin+gamma(0.5) SVM lin+gamma(auto) SVM rbf+gamma(scale) SVM rbf+gamma(scale)+C=100 SVM rbf+gamma(scale)+C=150 KNN minkowski + neighbors =1	0.50 0.50 0.86 0.86 0.86 0.73 0.77 0.53 0.51 0.56 0.47 0.81 0.49 0.89 0.50 0.73 0.69	0.48 0.50 0.86 0.86 0.84 0.74 0.78 0.52 0.51 0.56 0.39 0.81 0.50 0.89 0.50 0.73	0.50 0.50 0.86 0.86 0.85 0.78 0.79 0.53 0.51 0.56 0.52 0.84 0.49 0.90 0.50 0.73 0.69	0.51 0.51 0.86 0.87 0.85 0.75 0.78 0.53 0.51 0.56 0.47 0.81 0.50 0.90 0.50 0.73 0.68			

80%	KNN minkowski + neighbors =5	0.70	0.70	0.72	0.71	
80%	LogiReg liblinear+penalty=L1	0.54	0.54	0.54	0.54	
80%	LogiReg lbfgs+max_iter=50	0.52	0.52	0.52	0.52	
80%	LogiReg liblinear+penalty=L2	0.49	0.50	0.49	0.50	
80%	NaiveBayes	0.38	0.43	0.44	0.44	
	ALGORİTMALAR İÇİN EN İYİ SO	NUÇLAR;				
75%	SVM rbf+gamma(auto)	0.91	0.91	0.92	0.92	
75%	KNN minkowski + neighbors =2	0.86	0.86	0.86	0.87	
75%	LogiReg lbfgs + C= 50	0.56	0.56	0.56	0.56	
75%	NaiveBayes	0.47	0.39	0.52	0.47	