	Precision	Recall	F1-Score	Support	Analiza RACKET	
SVM DEFAULT PARAMETERS, ALL FEATURES				СПР	Numar total features	22
					Numar total features variance treshold	21
badminton clear	0.4	0.67	0.5	43	Numar total features percentile 90%	20
badminton_smash	0.58				Numar total features percentile 70%	15
squash backhandboast	0.61	0.65		34	Numar total features percentile 30%	6
squash_forehandboast	0.59	0.29	0.38	35	·	
Accuracy	0.54	0.5	0.49	152		
SVM (C=0.1, gamma=1, kernel='poly') GridSearchCV , ALL FEATURES					Am ales sa fac analiza pe 3 variante de features pentru algoritm. Cu toate features, cu variance treshold aplicat percentile (30,70,90).	
					Am observat ca pentru SVM a contat mai mult un numa	ar mai mare de
badminton_clear	0.62				features, dar totodata sa fie doar cele mai folositoare, d	
badminton_smash	0.62				mai bun rezultat a fost pe percentile 30.	
squash_backhandboast	0.88					
squash_forehandboast	0.69	0.83	0.75	35	Am observat ca pentru random forest, cel mai bun rezu toate features pe o adancime destul de mare.	ıltat a fost pe
Accuracy	0.7	0.69	0.69	152		
SVM (C=0.1, gamma=1, kernel='poly') GridSearchCV, VARIANCE TRESHOLD=0.25					Am observat la gradient boosting ca rezultatele sunt sin dat seama insa tarziu, cand faceam analiza, ca diferent statea in learning rate, si acolo puteam sa vad o diferer	tiatorul probabi
badminton_clear	0.62	0.65	0.64	43	Ca analiza generala, am incercat sa testez pe cat mai r	multe varianta
badminton smash	0.62				astfel am vazut ca fiind foarte important sa folosesc Gri	
squash_backhandboast	0.88				pentru ca o configuratie buna este foarte importanta. Ar	
squash_forehandboast	0.69				diferenta clara intre o rulare de algoritm cu parametrii d parametrii optimi obtinuti prin Grid Search.	erauit si una cu
Accuracy	0.7	0.69	0.69	152	Cred ca este foarte important ca in functie de modelul/a sa ne dam seama care este cea mai buna combinatie in	
					oferim si ce parametrii. Pentru mine contra-intuitiv a fos unele modele, un numar mare de features a fost mai fa mai mic de features mai importante, si vice-versa.	st ca pentru
SVM (C=1, gamma=0.0001, kernel='poly') GridSearchCV , PERCENTILE TRESHOLD=30						
badminton_clear	0.66	0.86	0.75	43	In alta ordine de idei, am observat si o corelare intre pe algoritmilor si timpii de rulare.	erformantele
badminton_smash	0.82					
squash backhandboast	0.97				Am observat ca in majoritatea cazurilor, loviturile de squ	
,					cele mai bine clasificate. Am observat in plot bar ca sul exemple pe cele 2 clase clasificate mai bine. (asta se p	
squash_forehandboast	0.97	0.94	0.97	35	confusion matrix din ipynb)	

Accuracy	0.86	0.84	0.84	152	Am observat ca loviturule de badminton sunt destul de asemanat de asta clasificarile se incurca uneori, si din matricile de confuzie observat ca se incurca intre ele.
SVM(C=0.1, gamma=1, kernel='poly') GridSearchCV , PERCENTILE TRESHOLD=70					
badminton_clear	0.67	0.6	0.63	43	
badminton_smash	0.63	0.55	0.59	40	
squash_backhandboast	0.79	0.91	0.85	34	
squash_forehandboast	0.69	0.89	0.84	35	
Accuracy	0.72	0.74	0.73	152	
SVM(C=0.1, gamma=1, kernel='poly') GridSearchCV , PERCENTILE TRESHOLD=90					
badminton_clear	0.55	0.63	0.59	43	
badminton_smash	0.59	0.55	0.57	40	
squash_backhandboast	0.82	0.68	0.74	34	
squash_forehandboast	0.71	0.77	0.74	35	
Accuracy	0.67	0.66	0.65	152	
RandomForestClassifier DEFAULT PARAMETERS, ALL FEATURES					
badminton_clear	0.7	0.81	0.75	43	
badminton_smash	0.78	0.62	0.69	40	
squash_backhandboast squash_forehandboast	0.94	0.97	0.97 0.99	34 35	
Accuracy	0.86	0.85	0.85	152	
RandomForestClassifier (max_depth=8, max_features='log2', n_estimators=400) GridSearchCV, ALL FEATURES					
badminton_clear	0.75	0.88	0.81	43	
badminton_smash	0.73	0.68	0.76	40	
squash_backhandboast	0.97	0.00	0.70	34	
squash_forehandboast	1	1	1	35	
aquaari_rorerrariuboaat	1	1	1	JJ	

Accuracy	0.9	0.89	0.89	152	
RandomForestClassifier (criterion='entropy', max_depth=7,					
max_features='auto'), VARIANCE_TRESHOLD=0.25					
badminton_clear	0.71	0.84	0.77	43	
badminton_smash	0.78	0.62	0.69	40	
squash_backhandboast	0.94	0.97	0.96	34	
squash_forehandboast	1	0.97	0.99	35	
Accuracy	0.86	0.85	0.85	152	
RandomForestClassifier					
(criterion='entropy', max_depth=4, max_features='log2',					
n_estimators=300), PERCENTILE_TRESHOLD=30					
hadminton algar	0.65	0.77	0.7	43	
badminton_clear	0.65	0.77	0.7		
badminton_smash			0.65	40	
squash_backhandboast	0.97	0.97	0.97	34	
squash_forehandboast	0.97	1	0.99	35	
Accuracy	0.83	0.83	0.83	152	
RandomForestClassifier (criterion='entropy', max_depth=6, n_estimators=200), PERCENTILE_TRESHOLD=70					
PERCENTILE_TRESHOLD=70					
badminton_clear	0.73	0.81	0.77	43	
badminton_smash	0.79	0.68	0.73	40	
squash_backhandboast	1	1	1	34	
squash_forehandboast	0.97	1	0.99	35	
Accuracy	0.87	0.87	0.87	152	
Dandom Forest Classifier					
RandomForestClassifier (max_depth=8, max_features='log2', n_estimators=300), PERCENTILE_TRESHOLD=90					
badminton_clear	0.73	0.84	0.78	43	
badminton_smash	0.79	0.68	0.73	40	

	0.07	0.07	0.07	0.4	
squash_backhandboast	0.97	0.97	0.97	34	
squash_forehandboast	0.97	0.97	0.97	35	
Accuracy	0.87	0.86	0.86	152	
GradientBoostingClassifier, DEFAULT PARAMETERS, ALL FEATURES					
badminton_clear	0.67	0.65	0.66	43	
badminton_smash	0.68	0.65	0.67	40	
squash_backhandboast	0.86	0.91	0.89	34	
squash_forehandboast	0.94	0.97	0.96	35	
Accuracy	0.79	8.0	0.79	152	
GradientBoostingClassifier (max_depth=7, max_features='log2', n_estimators=200), ALL FEATURES					
badminton_clear	0.77	0.84	0.8	43	
badminton_smash	0.81	0.72	0.76	40	
squash_backhandboast	0.94	1	0.97	34	
squash_forehandboast	1	0.94	0.97	35	
Accuracy	0.88	0.88	0.88	152	
GradientBoostingClassifier (max_depth=7, max_features='log2', n_estimators=400), VARIANCE_TRESHOLD=0.25					
badminton_clear	0.74	0.86	0.8	43	
badminton_smash	0.84	0.68	0.75	40	
squash_backhandboast	0.94	1	0.97	34	
squash_forehandboast	1	0.97	0.99	35	
Accuracy	0.88	0.88	0.88	152	
GradientBoostingClassifier (max_depth=4, max_features='sqrt', n_estimators=300), PERCENTILE_TRESHOLD=30					

badminton_clear	0.73	0.77	0.75	43	
badminton_smash	0.76	0.72	0.74	40	
squash_backhandboast	1	0.94	0.97	34	
squash_forehandboast	0.95	1	0.97	35	
Accuracy	0.86	0.86	0.86	152	
GradientBoostingClassifier (max_depth=4, max_features='log2', n_estimators=300), PERCENTILE_TRESHOLD=70					
badminton_clear	0.71	0.81	0.76	43	
badminton_smash	0.79	0.65	0.71	40	
squash_backhandboast	1	1	1	34	
squash_forehandboast	0.97	1	0.99	35	
Accuracy	0.87	0.87	0.86	152	
GradientBoostingClassifier (max_depth=8, max_features='log2', n_estimators=500), PERCENTILE_TRESHOLD=90					
badminton_clear	0.74	0.86	0.8	43	
badminton_smash	0.85	0.7	0.77	40	
squash_backhandboast	0.94	1	0.97	34	
squash_forehandboast	1	0.94	0.97	35	
Accuracy	0.88	0.88	0.88	152	