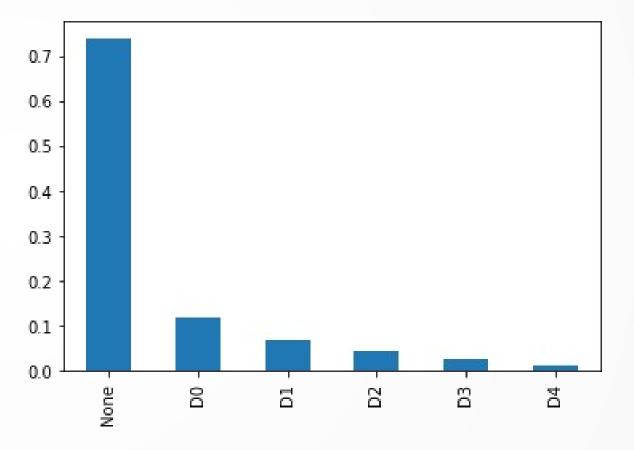
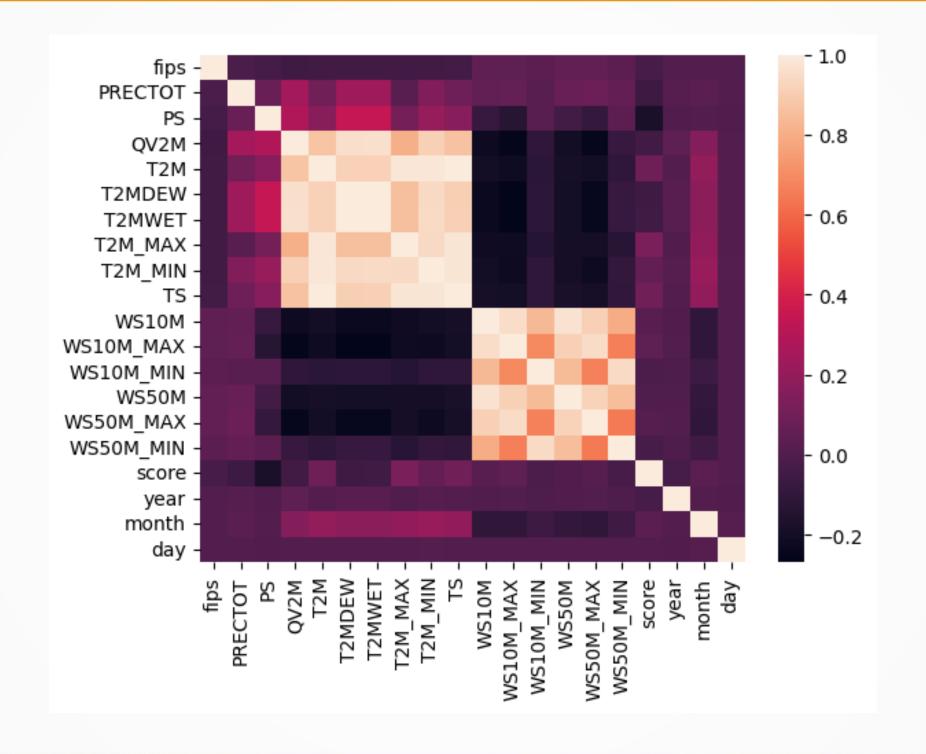
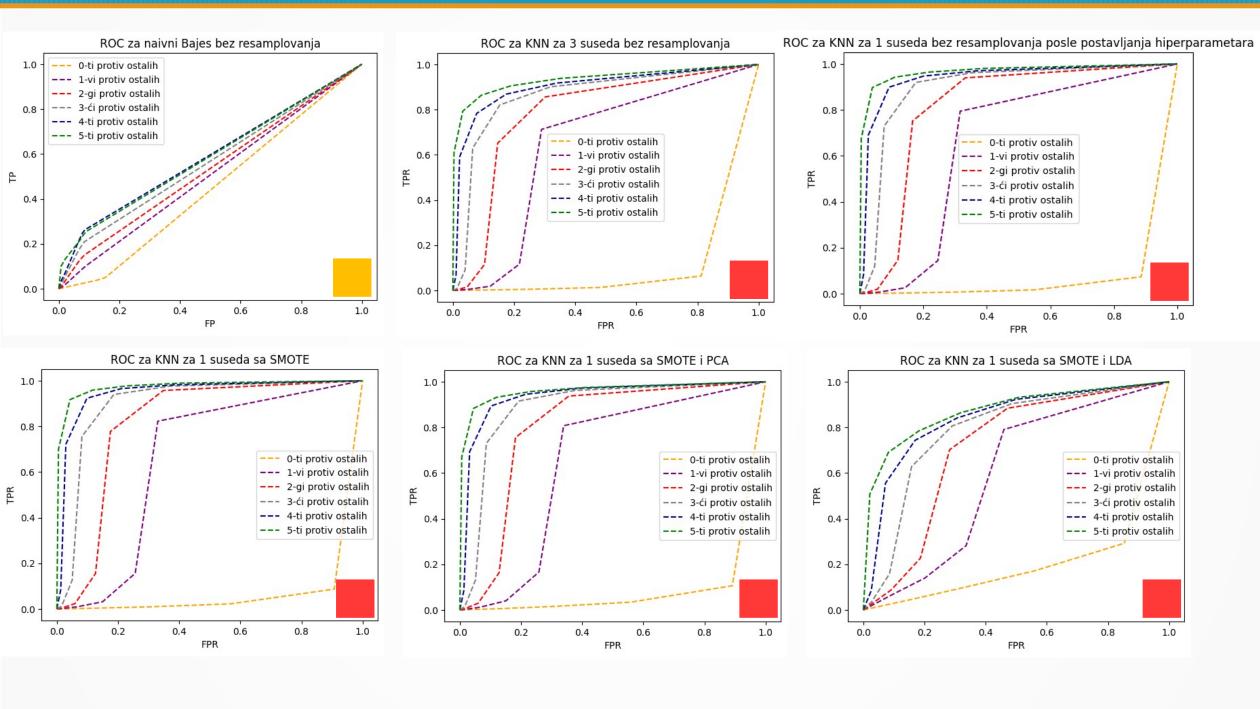
Prezentacija na temu "Predviđanje suša koristeći skup podataka meteoroloških uslova"

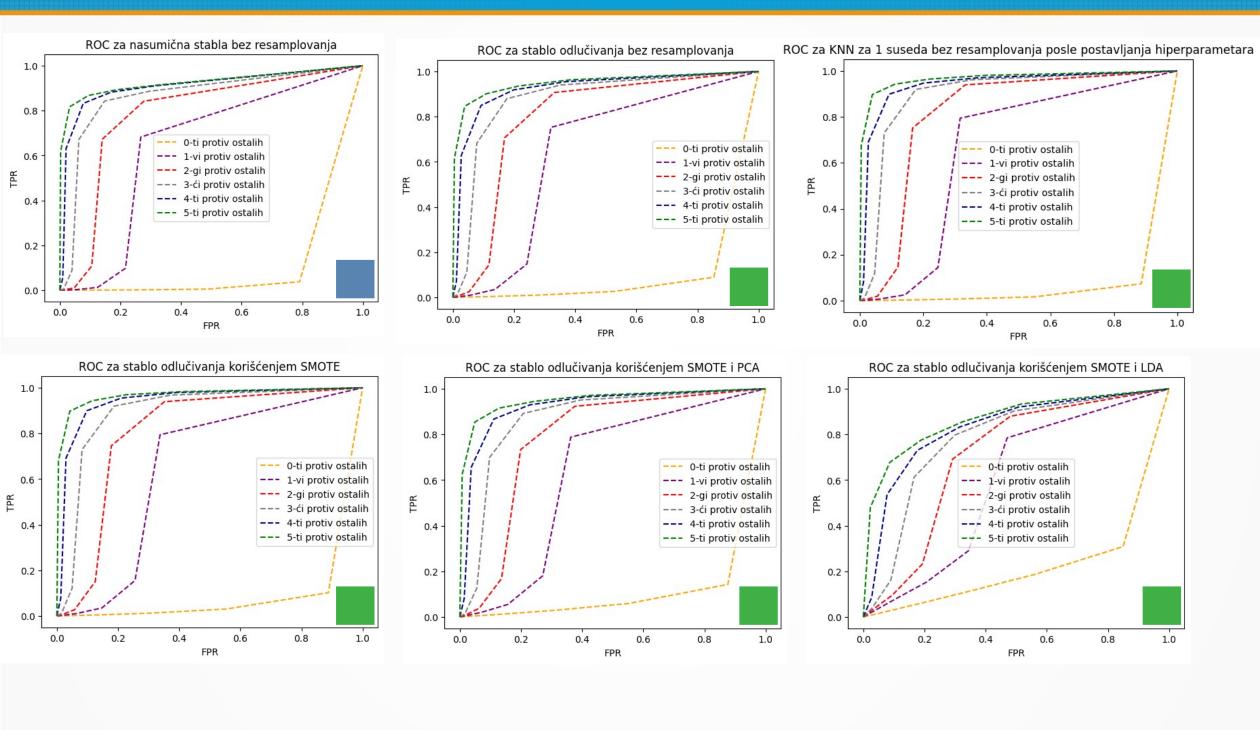
Category	Description	Possible Impacts
D0	Abnormally Dry	Going into drought: short-term dryness slowing planting, growth of crops or pastures Coming out of drought: some lingering water deficits pastures or crops not fully recovered
D1	Moderate Drought	 Some damage to crops, pastures Streams, reservoirs, or wells low, some water shortages developing or imminent Voluntary water-use restrictions requested
D2	Severe Drought	 Crop or pasture losses likely Water shortages common Water restrictions imposed
D3	Extreme Drought	 Major crop/pasture losses Widespread water shortages or restrictions
D4	Exceptional Drought	 Exceptional and widespread crop/pasture losses Shortages of water in reservoirs, streams, and wells creating water emergencies

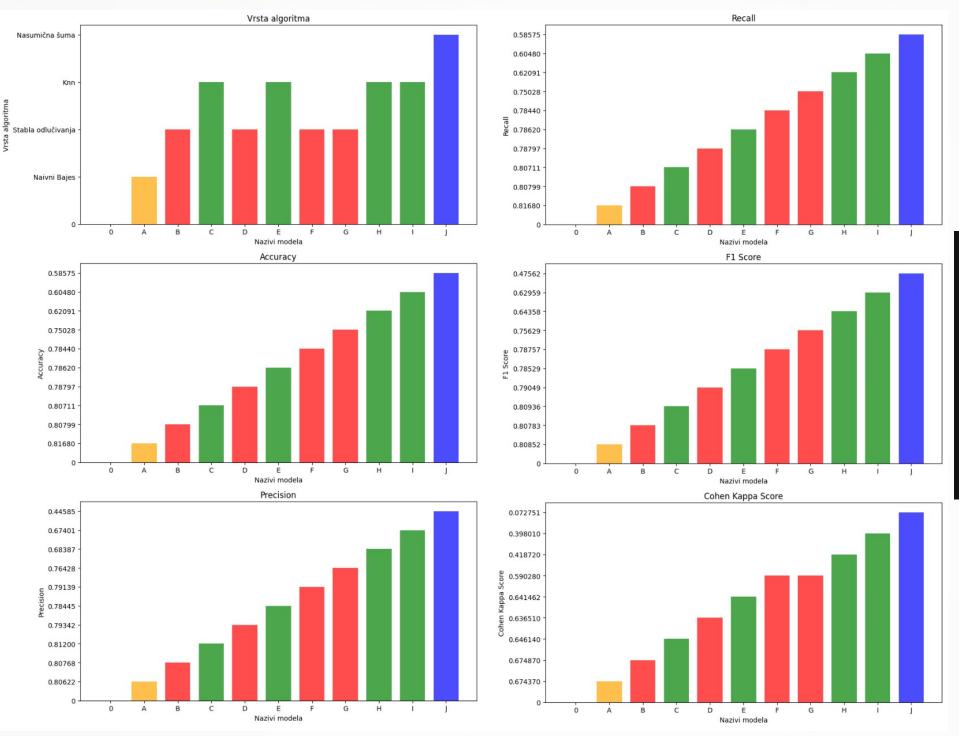


Indicator	Description	Indicator	Description
WS10M_MIN	Minimum Wind Speed at 10 Meters (m/s)	WS50M_RANGE	Wind Speed Range at 50 Meters (m/s)
QV2M	Specific Humidity at 2 Meters (g/kg)	WS50M_MAX	Maximum Wind Speed at 50 Meters (m/s)
T2M_RANGE	Temperature Range at 2 Meters (C)	WS10M_MAX	Maximum Wind Speed at 10 Meters (m/s)
WS10M	Wind Speed at 10 Meters (m/s)	WS10M_RANGE	Wind Speed Range at 10 Meters (m/s)
T2M	Temperature at 2 Meters (C)	PS	Surface Pressure (kPa)
WS50M_MIN	Minimum Wind Speed at 50 Meters (m/s)	T2MDEW	Dew/Frost Point at 2 Meters (C)
T2M_MAX	Maximum Temperature at 2 Meters (C)	T2M_MIN	Minimum Temperature at 2 Meters (C)
WS50M	Wind Speed at 50 Meters (m/s)	T2MWET	Wet Bulb Temperature at 2 Meters (C)
TS	Earth Skin Temperature (C)	PRECTOT	Precipitation (mm day-1)









Model nasumične šume: plava J = Nasumična šuma bez resamplovanja

Model stabla odlučivanja: crvena

F = Stabla odlučivanja bez resamplovanja

G = Stabla odlučivanja sa SMOTE

D = Stabla odlučivanja sa SMOTE i PCA

B = Stabla odlučivanja sa SMOTE i LDA

Model k najbližih suseda: zelena

I = KNN bez resamplovanja

H = KNN sa SMOTE

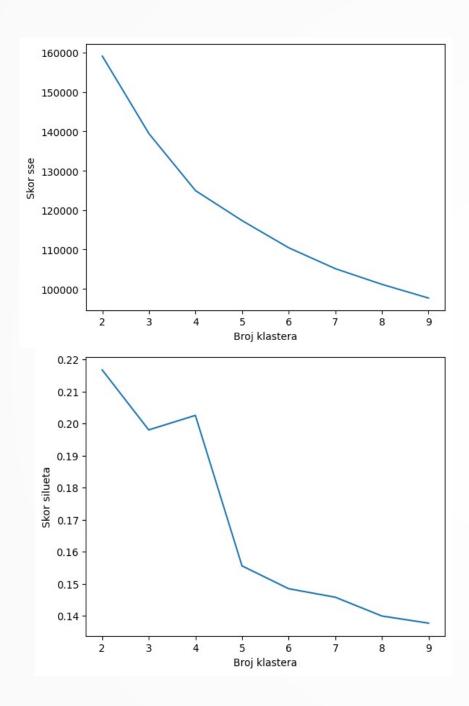
E = KNN sa SMOTE i PCA

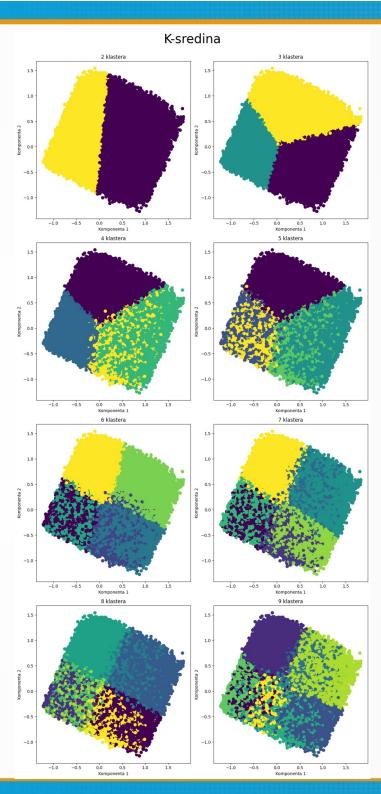
C = KNN sa SMOTE i LDA

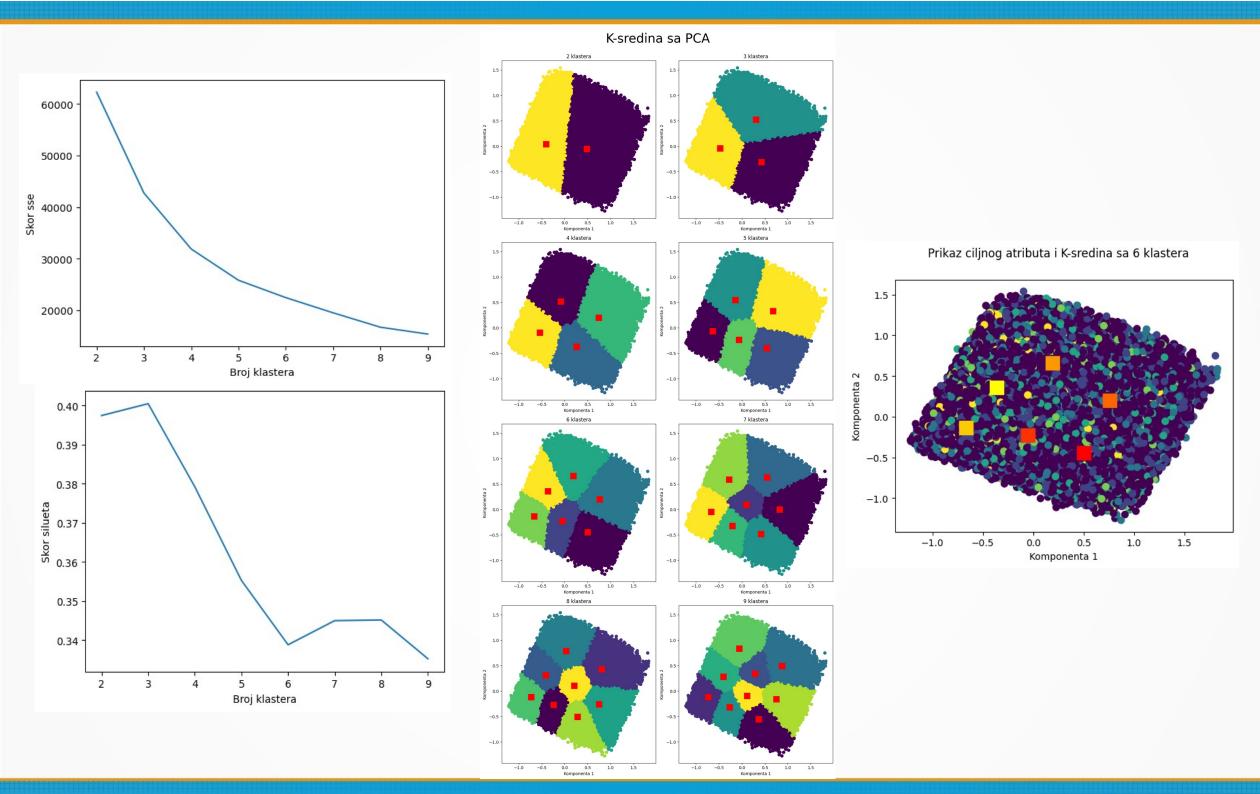
Model naivnog Bajesa: žuta

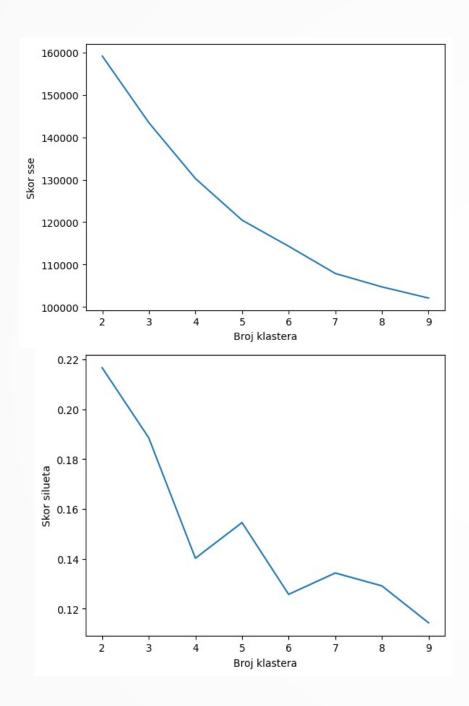
A = Naivni Bajes bez resamplovanja

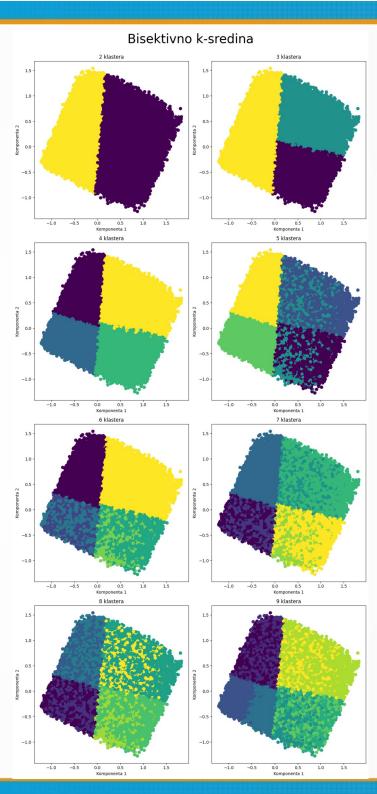
	Algoritam	Accuracy	Precision	Recall	F1 Score	Cohen Kappa Score
4	Nasumična šuma bez resamplovanja	0.81680	0.80622	0.81680	0.80852	0.674370
5	KNN bez resamplovanja	0.80799	0.80768	0.80799	0.80783	0.674870
6	KNN sa SMOTE	0.80711	0.81200	0.80711	0.80936	0.641460
1	Stabla odlučivanja sa SMOTE	0.78797	0.79342	0.78797	0.79049	0.646140
0	Stabla odlučivanja bez resamplovanja	0.78620	0.78445	0.78620	0.78529	0.636510
7	KNN sa SMOTE i PCA	0.78440	0.79139	0.78440	0.78757	0.641462
2	Stabla odlučivanja sa SMOTE i PCA	0.75028	0.76428	0.75028	0.75629	0.590280
8	KNN sa SMOTE i LDA	0.62091	0.68387	0.62091	0.64358	0.418720
3	Stabla odlučivanja sa SMOTE i LDA	0.60480	0.67401	0.60480	0.62959	0.398010
9	Naivni Bajes bez resamplovanja	0.58575	0.44585	0.58575	0.47562	0.072751

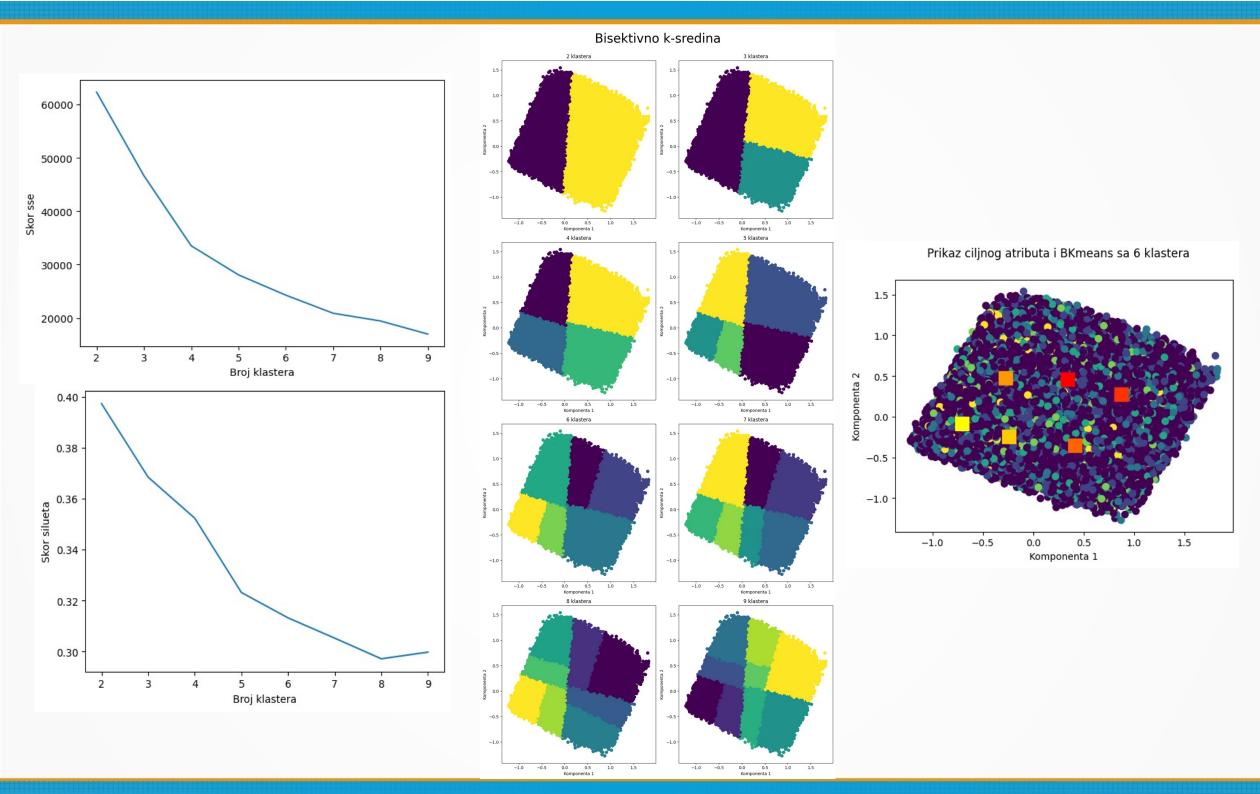


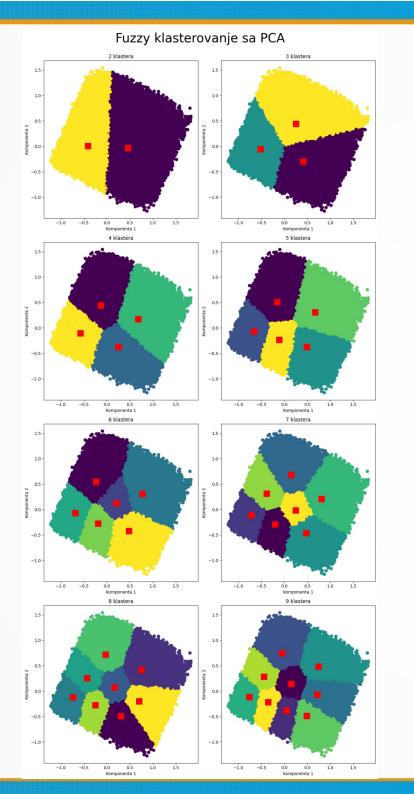


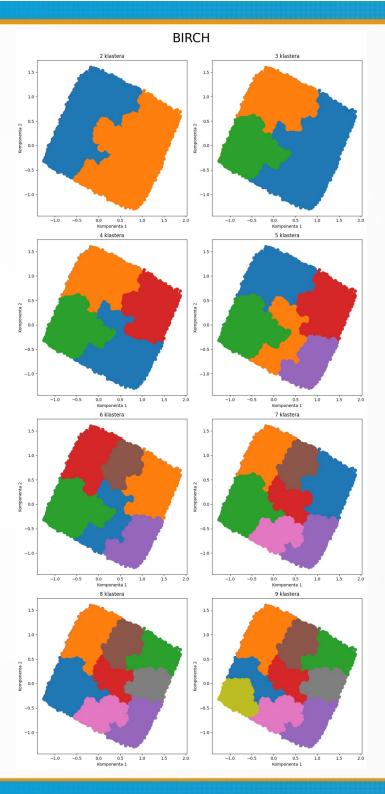




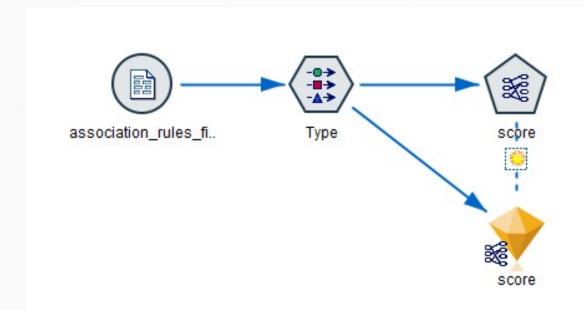




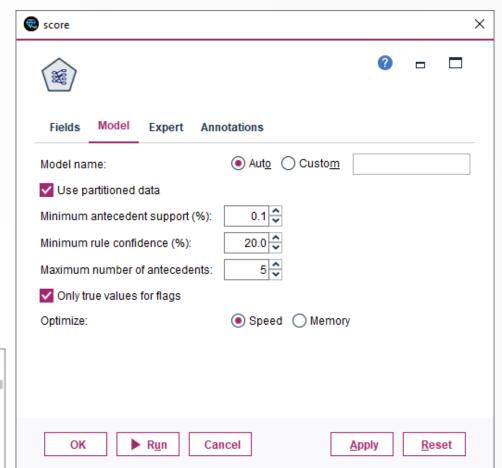




	Algoritam	Max Calinski- Harabasz	Max Calinski- Harabasz za broj klastera	Min Davies- Bouldin	Min Davies- Bouldin za broj klastera	Rang brzine izvršavanja	Broj klastera za lakat sse	Max skor siluete	Max skor siluete za broj klastera
5	BIRCH sa PCA	1.449756e+06	3	0.915970	8	1	nema	nema	nema
2	FCM sa PCA	2.065985e+05	5	0.842857	8	2	nedostupan	nedostupan	nedostupan
1	Kmean sa PCA	2.079651e+05	4	0.833051	8	3	5	0.400431	3
4	BKmean sa PCA	1.971135e+05	2	0.898224	5	4	4	0.397283	2
0	Kmean	7.723392e+04	2	1.646423	4	5	5	0.216731	2
3	BKmean	7.722877e+04	2	1.748488	2	6	5	0.216676	2



Consequent	Antecedent	Support %	Confidence %	
score = (3.0, 4.0]	TS = (28.0, 40.0] QV2M = (8.0, 12.0] PS = (100.0, 104.0]	0.125	20.273	
score = (3.0, 4.0]	TS = (28.0, 40.0] T2M_MAX = (32.0, 44.0] QV2M = (8.0, 12.0] PS = (100.0, 104.0]	0.124	20.21	
score = (3.0, 4.0]	TS = (28.0, 40.0] T2M = (24.0, 35.0] QV2M = (8.0, 12.0] PS = (100.0, 104.0]	0.124	20.07	
score = (3.0, 4.0]	TS = (28.0, 40.0] QV2M = (8.0, 12.0] PS = (100.0, 104.0] T2MDEW = (13.0, 22.0]	0.116	20.404	
score = (3.0, 4.0]	TS = (28.0, 40.0] QV2M = (8.0, 12.0] PS = (100.0, 104.0] PRECTOT = (-0.001, 4.0]	0.125	20.273	



score = (2.0, 3.0]	T2MDEW = (-14.0, -5.0] T2M_MIN = (-2.0, 9.0] T2M = (13.0, 24.0] T2M_MAX = (20.0, 32.0]	0.128	28.364
score = (2.0, 3.0]	T2MDEW = (-14.0, -5.0] T2MWET = (-13.0, -4.0] T2M_MIN = (-2.0, 9.0] T2M = (13.0, 24.0] T2M_MAX = (20.0, 32.0]	0.128	28.364
score = (2.0, 3.0]	T2MDEW = (-14.0, -5.0] QV2M = (-0.001, 4.0] T2M_MIN = (-2.0, 9.0] T2M = (13.0, 24.0] T2M_MAX = (20.0, 32.0]	0.128	28.364

score = (1.0, 2.0]	T2MDEW = (-14.0, -5.0] T2M = (13.0, 24.0]	0.237	24.033
score = (1.0, 2.0]	T2MDEW = (-14.0, -5.0] TS = (16.0, 28.0]	0.187	23.059
score = (1.0, 2.0]	T2MDEW = (-14.0, -5.0] T2M_MAX = (20.0, 32.0]	0.337	23.372
score = (1.0, 2.0]	T2MWET = (-13.0, -4.0] TS = (4.0, 16.0]	1.193	21.573
score = (1.0, 2.0]	T2MWET = (-13.0, -4.0] T2M_MIN = (-2.0, 9.0]	1.296	21.298

score = (-0.001, 1.0]	T2M_MIN = (9.0, 20.0]		
	TS = (16.0, 28.0]	26.557	79.709
	T2M_MAX = (20.0, 32.0]		
score = (-0.001, 1.0]	T2M = (13.0, 24.0]	1111	1,532,00
	TS = (16.0, 28.0]	26.447	78.936
	T2M_MAX = (20.0, 32.0]		
score = (-0.001, 1.0]	T2M = (13.0, 24.0]		
	$T2M_MAX = (20.0, 32.0)$	26.423	77.435
	PRECTOT = (-0.001, 4.0]		
score = (-0.001, 1.0]	T2M_MIN = (-2.0, 9.0]	26.382	76.687
	PRECTOT = (-0.001, 4.0]	20.302	70.007
score = (-0.001, 1.0]	T2M_MIN = (9.0, 20.0]		Takana .
	T2M = (13.0, 24.0]	26.108	79.633
	T2M_MAX = (20.0, 32.0]		10000