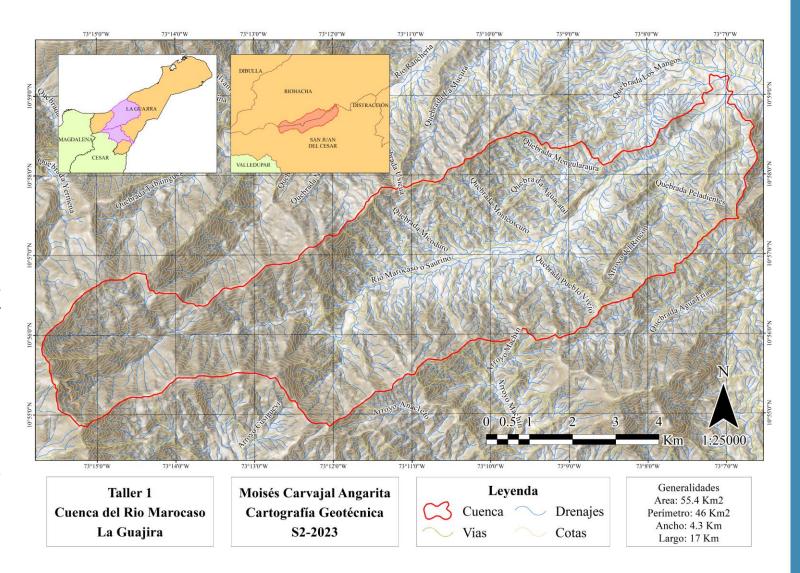
RIO MAROCASO Taller 9 – Evaluación de modelos

Moisés Carvajal Angarita 2023-S2

Generalidades

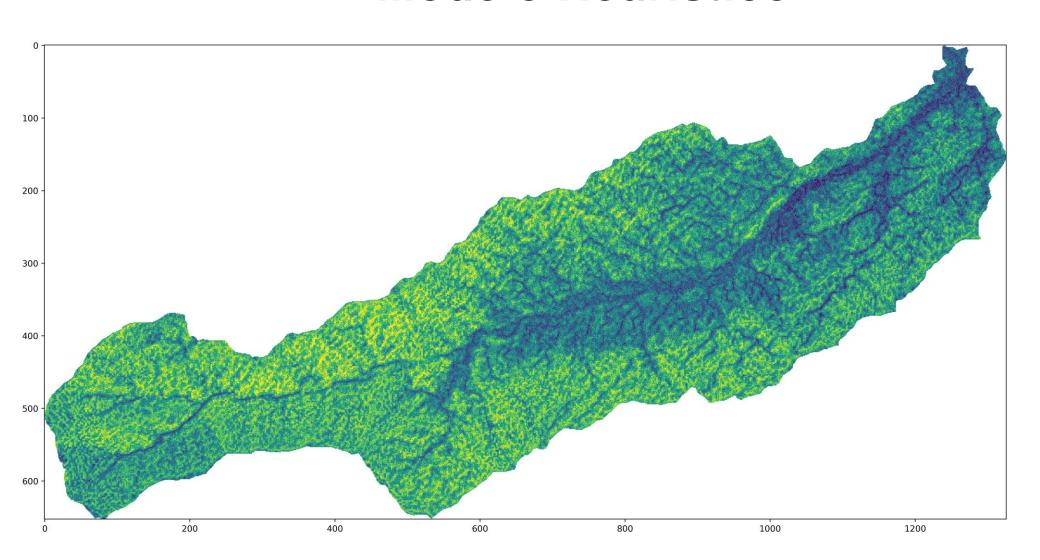
La cuenca del río Marocaso se encuentra en el Departamento de la Guajira a una altitud de aproximadamente 658 m.s.n.m., entre los municipios de Rihoacha y San Juan del Cesar.

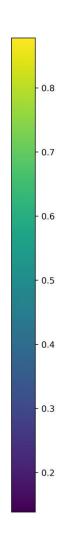
Nace directamente desde las montañas de la Sierra Nevada de Santa Marta y es un afluente directo del Rio Ranchería.



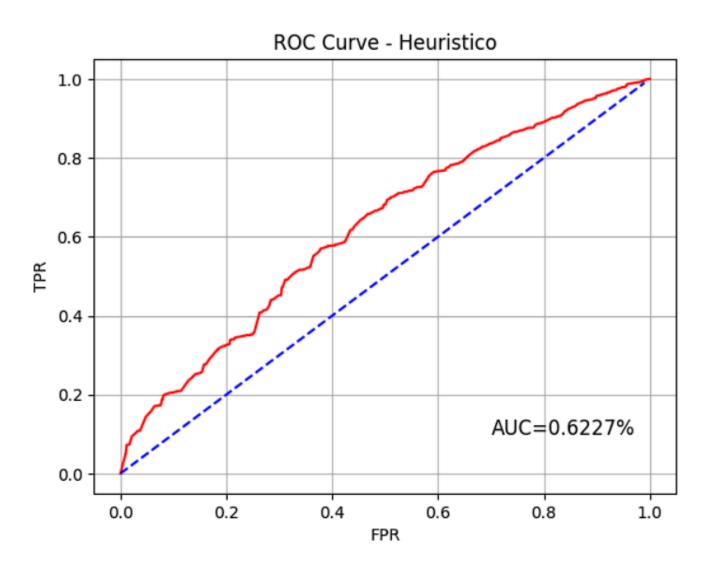
Modelo Heurístico

Modelo Heurístico





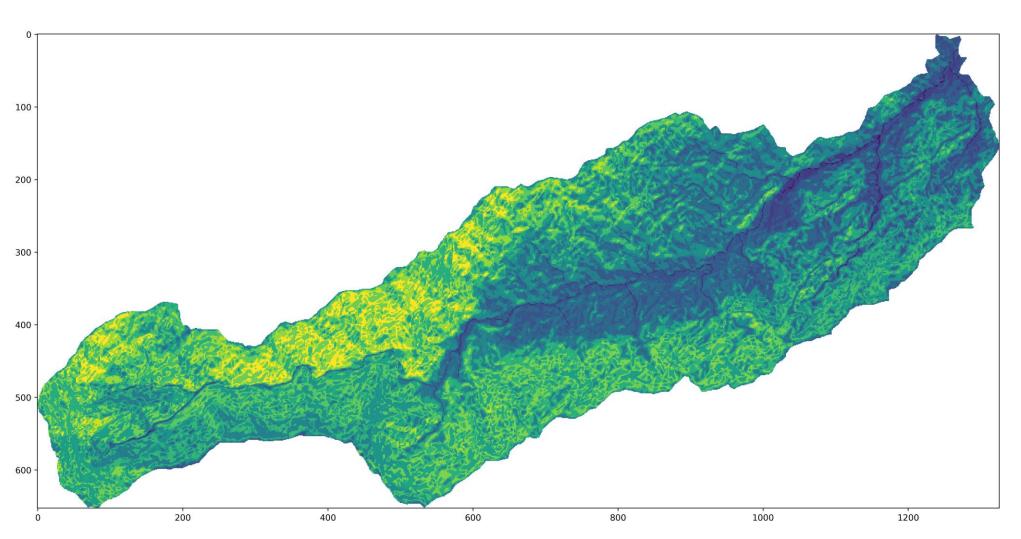
Modelo Heurístico

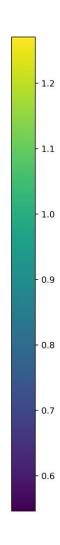


support	f1-score	recall	precision	
347699 6920	0.55 0.05	0.38 0.78	0.99 0.02	0.0 1.0
354619	0.39			accuracy
354619	0.30	0.58	0.51	macro avg
354619	0.54	0.39	0.97	weighted avg

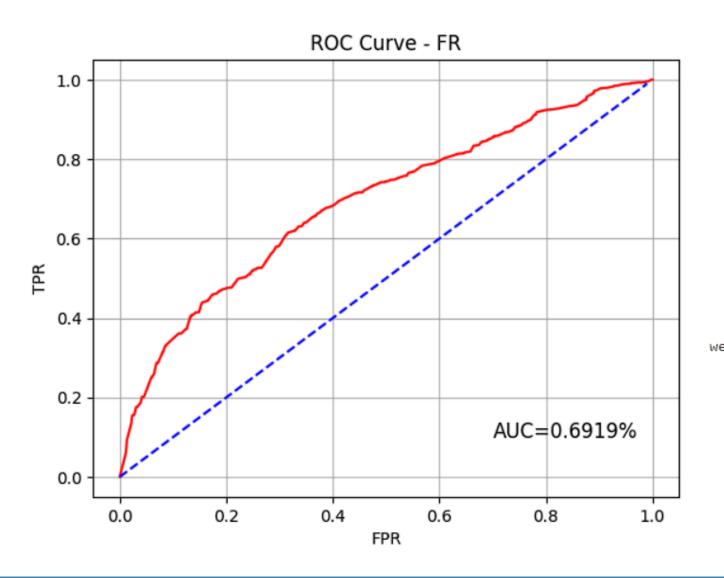
Modelos Bivariados

Frequency Ratio Model (Likelihood)



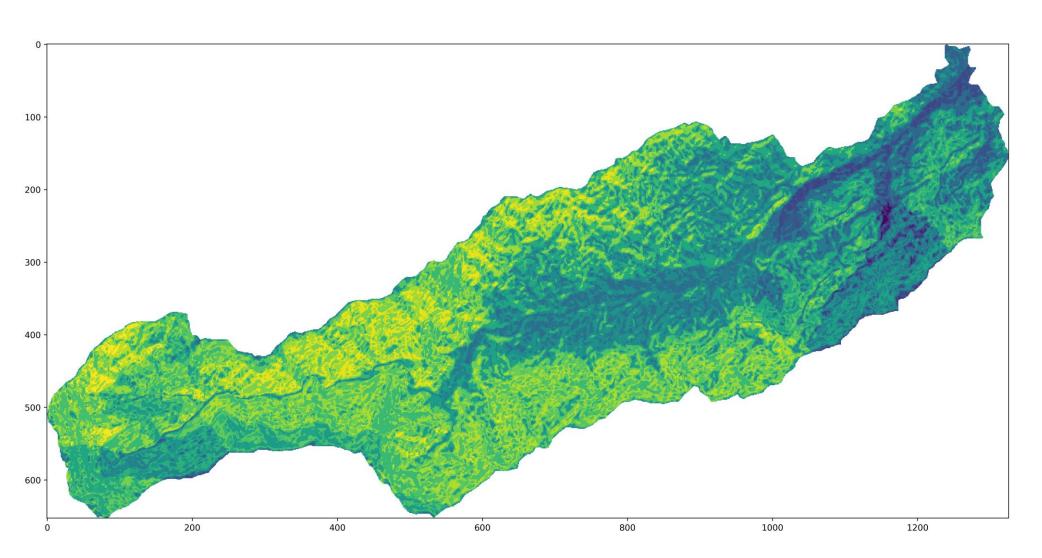


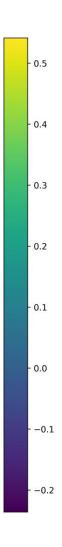
Frequency Ratio Model (Likelihood)



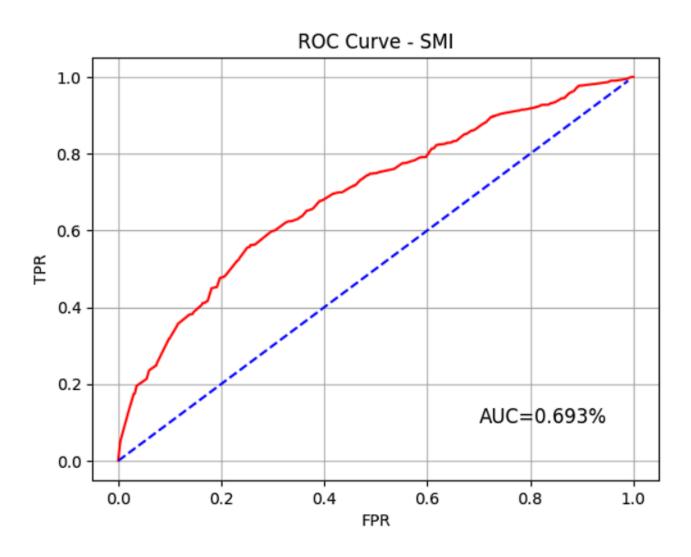
		precision	recall	f1-score	support
	0.0 1.0	0.99 0.03	0.40 0.79	0.57 0.05	347699 6920
accur macro eighted	avg	0.51 0.97	0.60 0.41	0.41 0.31 0.56	354619 354619 354619

Statistical Model Index



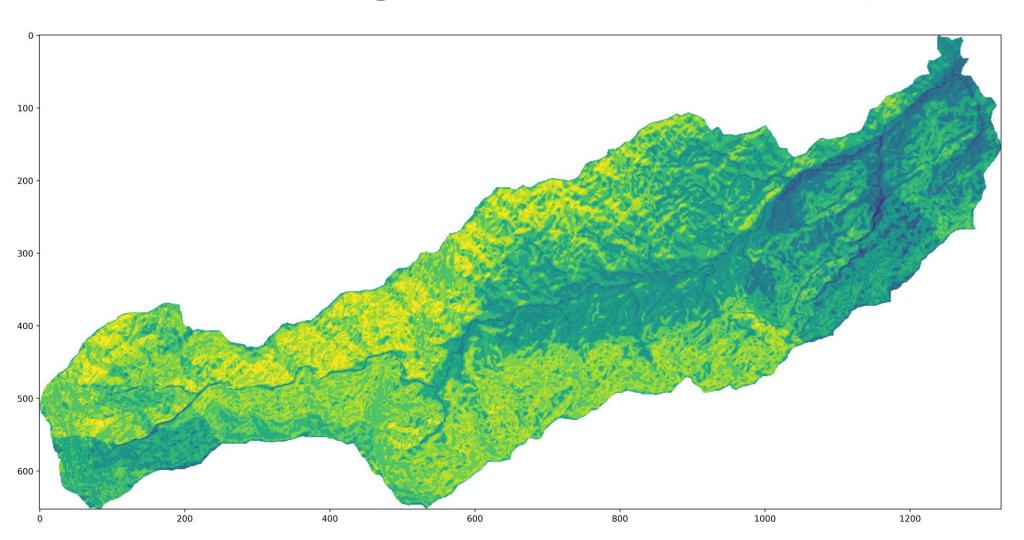


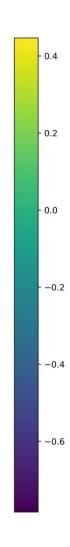
Statistical Model Index



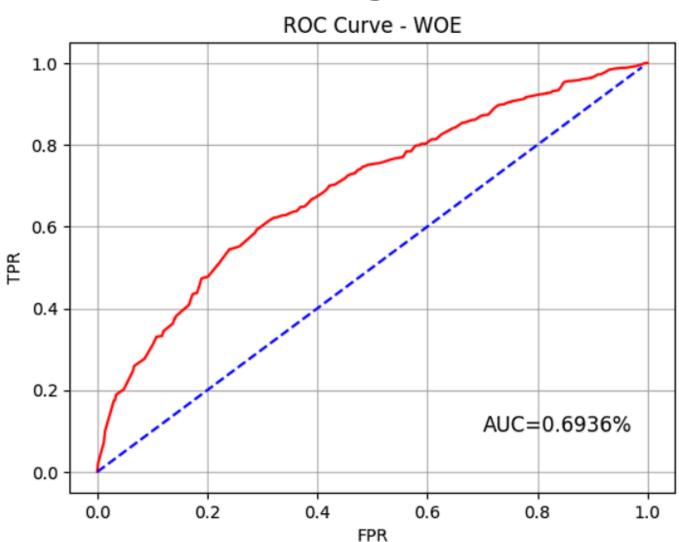
		precision	recall	f1-score	support
	0.0	0.99	0.27	0.42	347699
	1.0	0.02	0.90	0.05	6920
accur	acy			0.28	354619
macro	avg	0.51	0.58	0.24	354619
eighted	avg	0.97	0.28	0.42	354619

Weight of evidence (WOE)





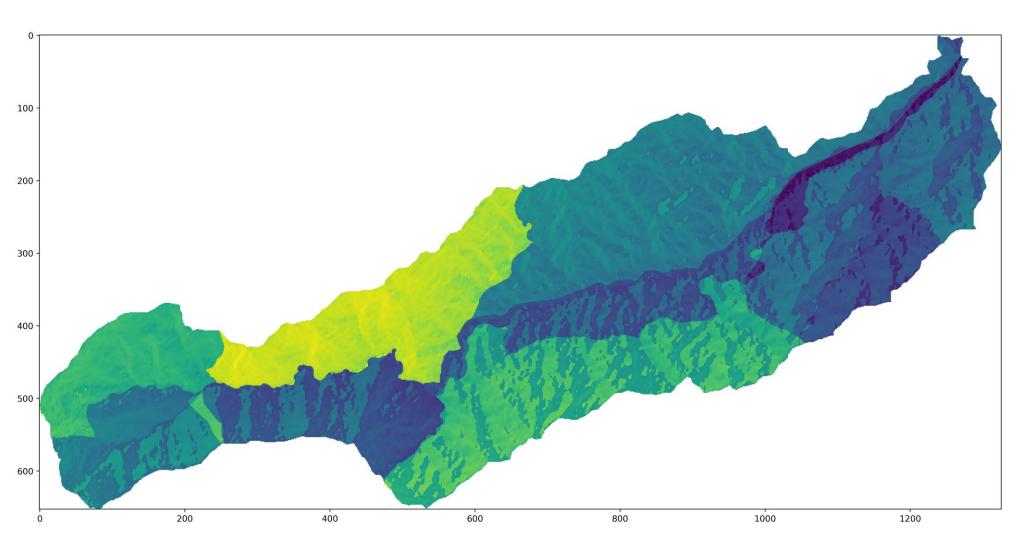
Weight of evidence (WOE)

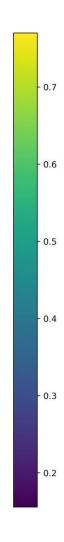


	precision	recall	f1-score	support
0.0	0.99	0.14	0.24	347699
1.0	0.02	0.96	0.04	6920
accuracy			0.15	354619
macro avg weighted avg	0.51 0.97	0.55 0.15	0.14 0.24	354619 354619
mergineed dig	0.57	0.15	0.2	33,013

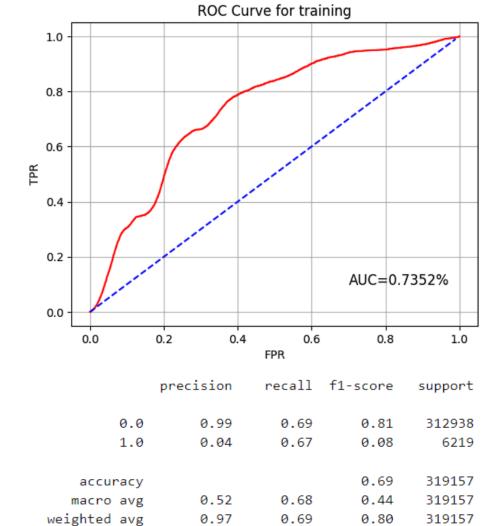
Modelos Multivariados

Regresión logística





Regresión logística

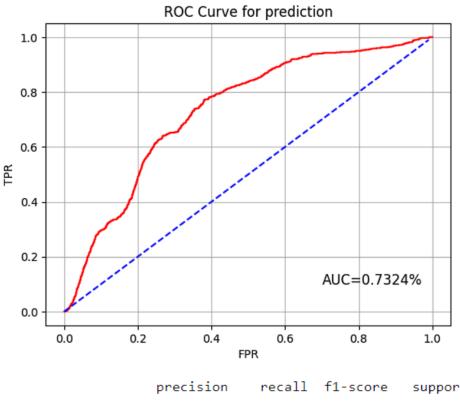


0.97

0.69

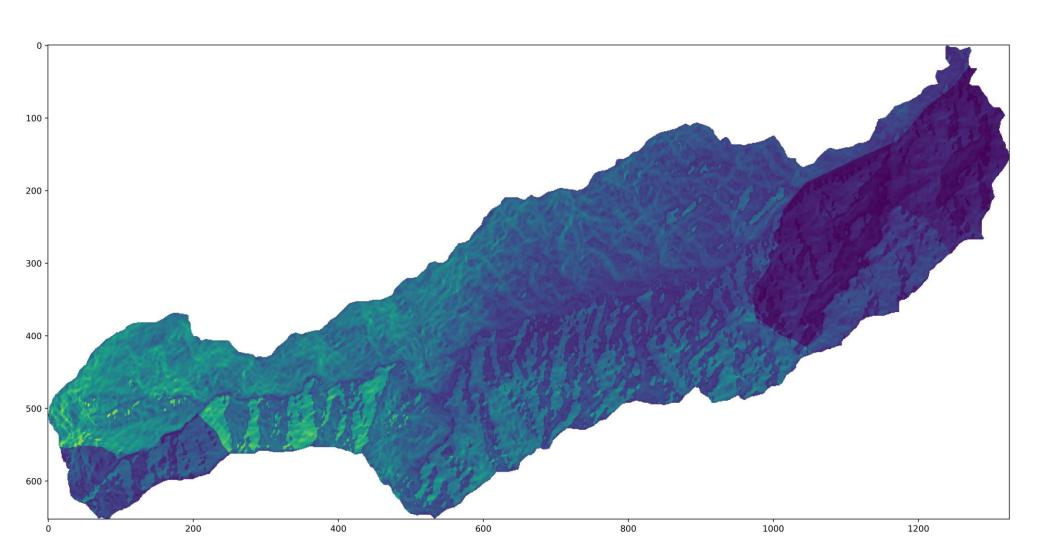
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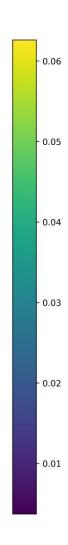
319157



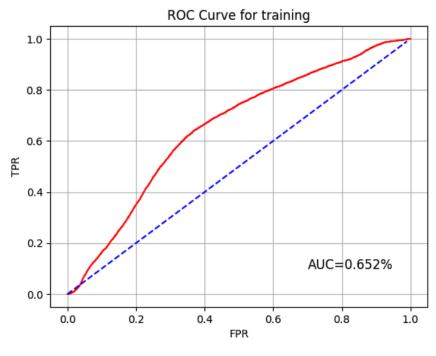
	precision	recall	f1-score	support
0.0	0.99	0.69	0.81	34761
1.0	0.04	0.67	0.08	701
accuracy			0.69	35462
macro avg	0.52	0.68	0.44	35462
weighted avg	0.97	0.69	0.80	35462

Análisis discriminante lineal

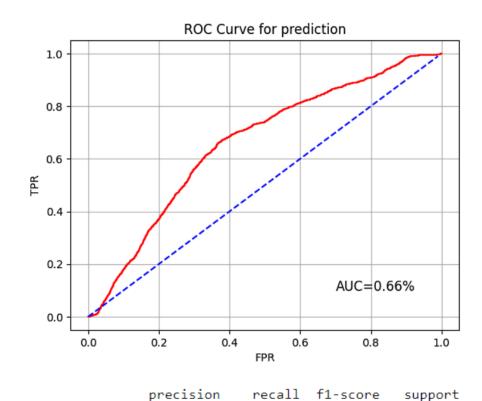




Análisis discriminante lineal



	precision	recall	f1-score	support
0.0	0.98	1.00	0.99	278128
1.0	0.00	0.00	0.00	5567
accuracy			0.98	283695
macro avg	0.49	0.50	0.50	283695
weighted avg	0.96	0.98	0.97	283695



0.98

0.00

0.49

0.96

1.00

0.00

0.50

0.98

69571

1353

70924

70924

70924

0.99

0.00

0.98

0.50

0.97

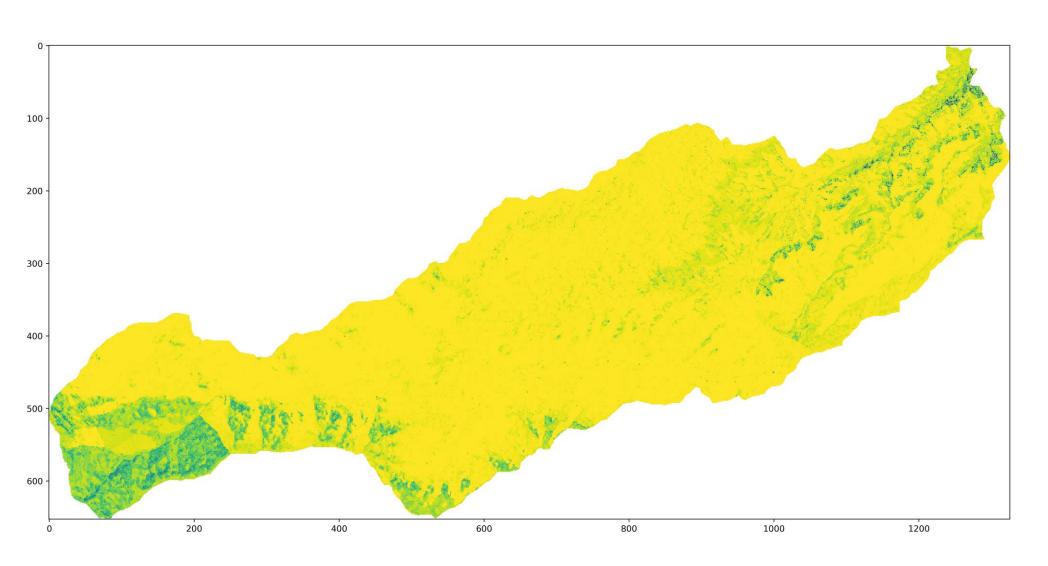
0.0

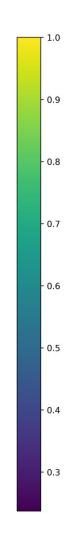
1.0

accuracy macro avg

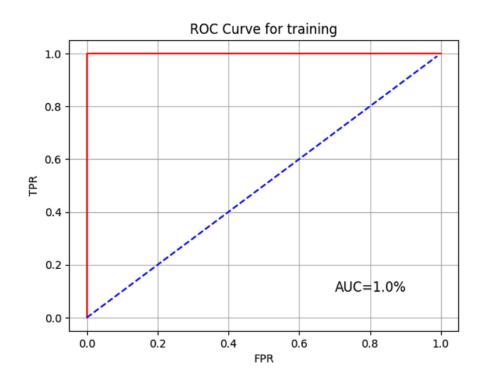
weighted avg

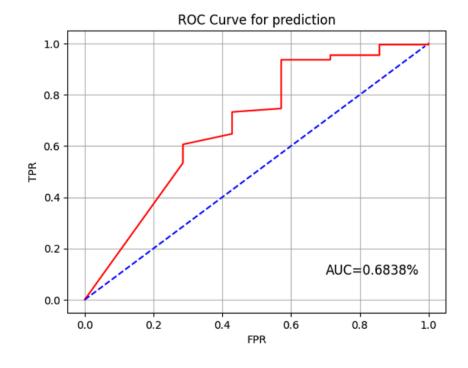
Random Forest





Random Forest





support	f1-score	recall	precision	
27	1.00	1.00	1.00	0.0
5536	1.00	1.00	1.00	1.0
5563	1.00			accuracy
5563	1.00	1.00	1.00	macro avg
5563	1.00	1.00	1.00	weighted avg

support	f1-score	recall	precision	
7	0.00	0.00	0.00	0.0
1384	1.00	1.00	0.99	1.0
1391	0.99			accuracy
1391 1391	0.50 0.99	0.50 0.99	0.50 0.99	macro avg weighted avg