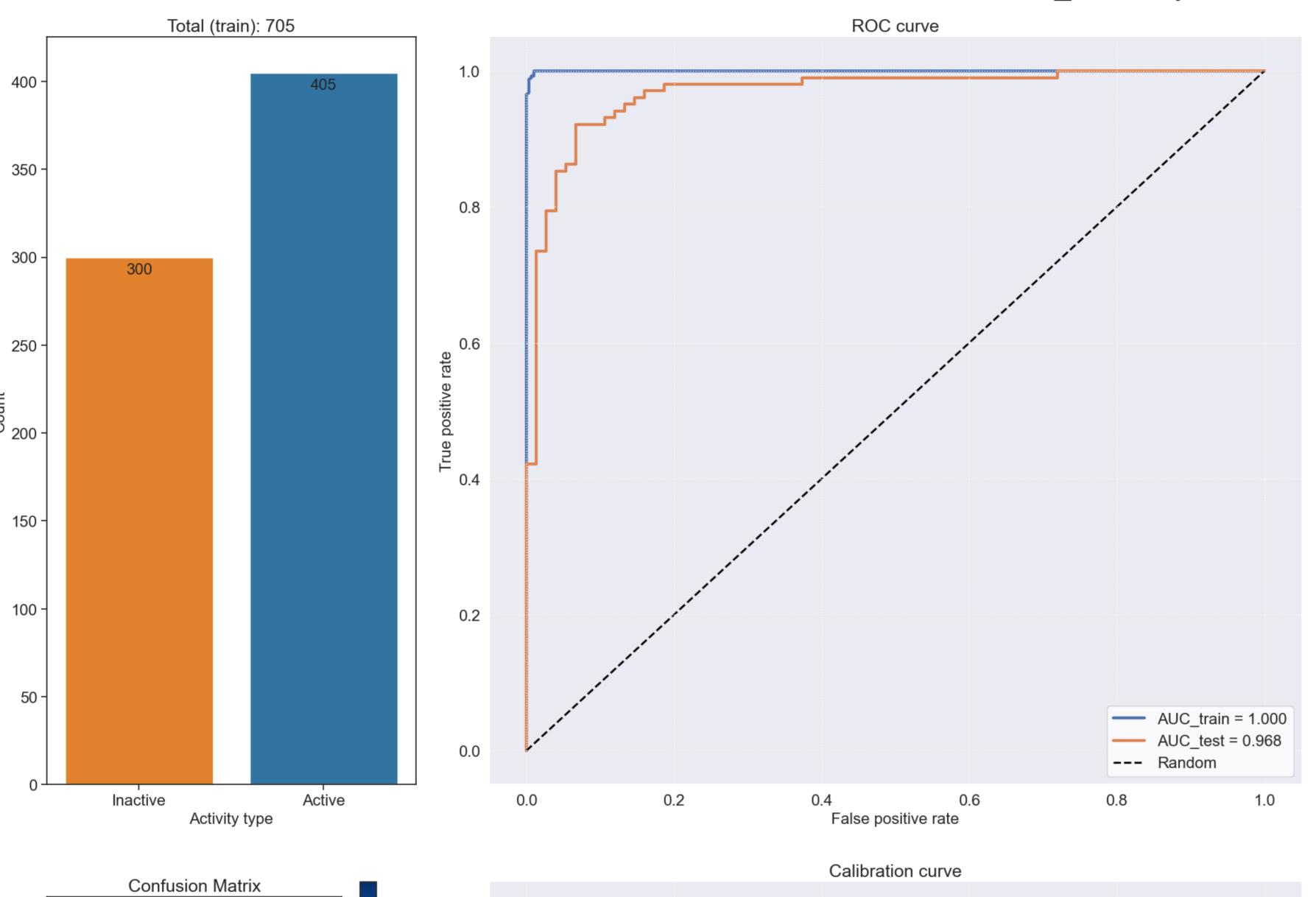
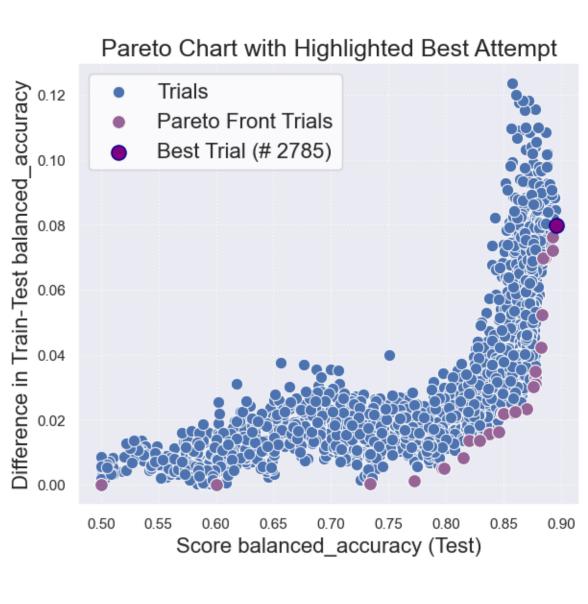
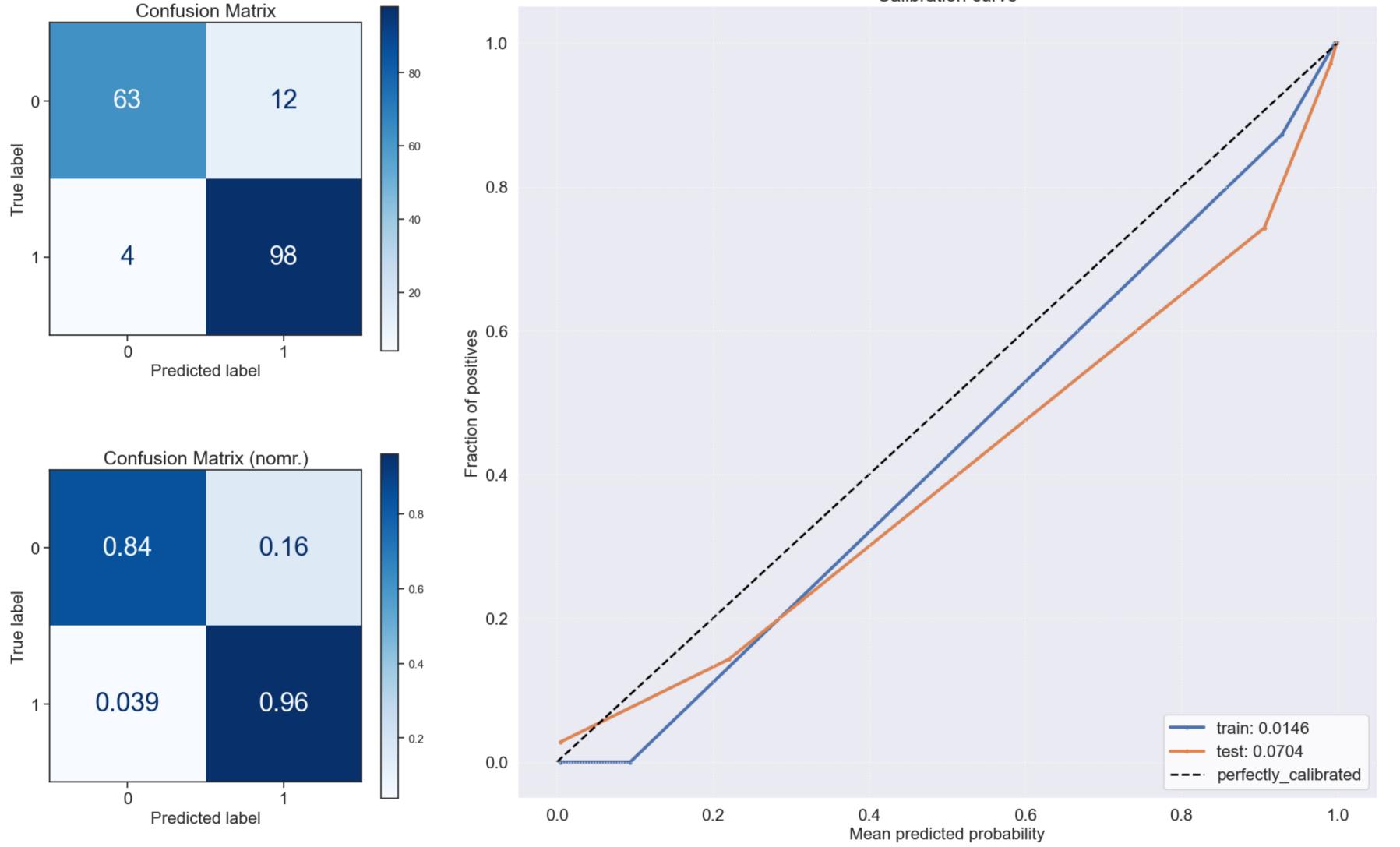
Protein: P43681 - metric: balanced_accuracy





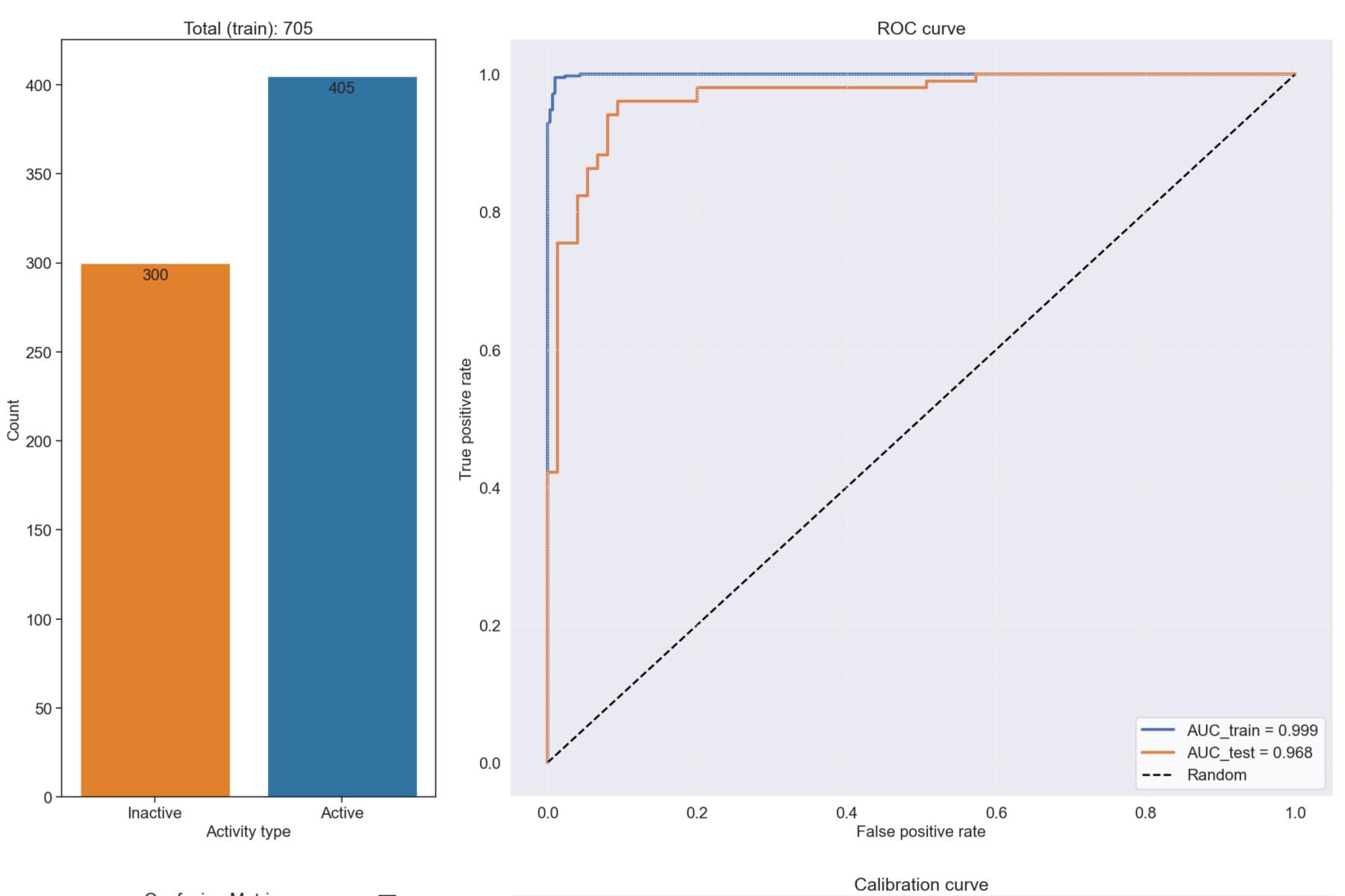
XGBoost Parameters	Value
alpha	4.3999
colsample_bytree	0.8627
gamma	0.3092
lambda	1.8821
learning_rate	0.0532
max_depth	10.0
min_child_weight	3.0
n_estimators	815.0
reg_alpha	0.0351
reg_lambda	0.0772
scale_pos_weight	6.5148
subsample	0.9051

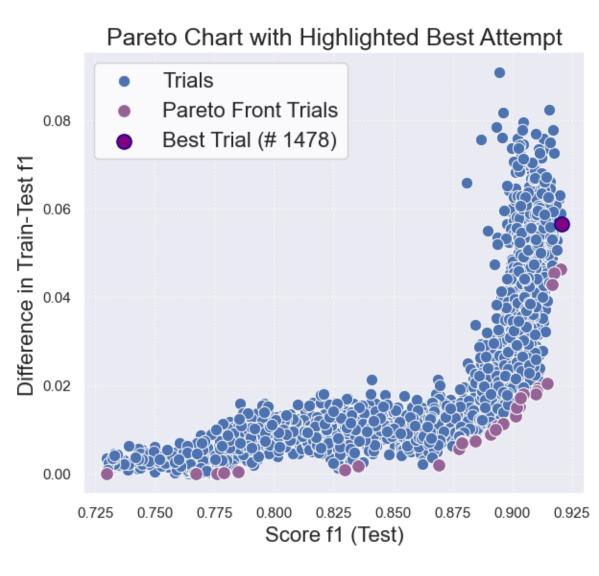


			Active/Inactiv	e probability			
50	In	active zone			Active z	ina	ve (102) ctive (75)
40						dec	oy (177)
Percent							
20							
0		┍		<u></u>	▄▄▗▄▁		
0	0.0	0.2	0.4 Proba	0.6 ability	0.	8	1.0

Metric	Train	Test
AUC	0.9998	0.9684
accuracy	0.9787	0.9096
balanced accuracy	0.975	0.9004
recall_(sens)	1.0	0.9608
specificity	0.95	0.84
precision	0.9643	0.8909
f1_score	0.9786	0.9088

Protein: P43681 - metric: f1





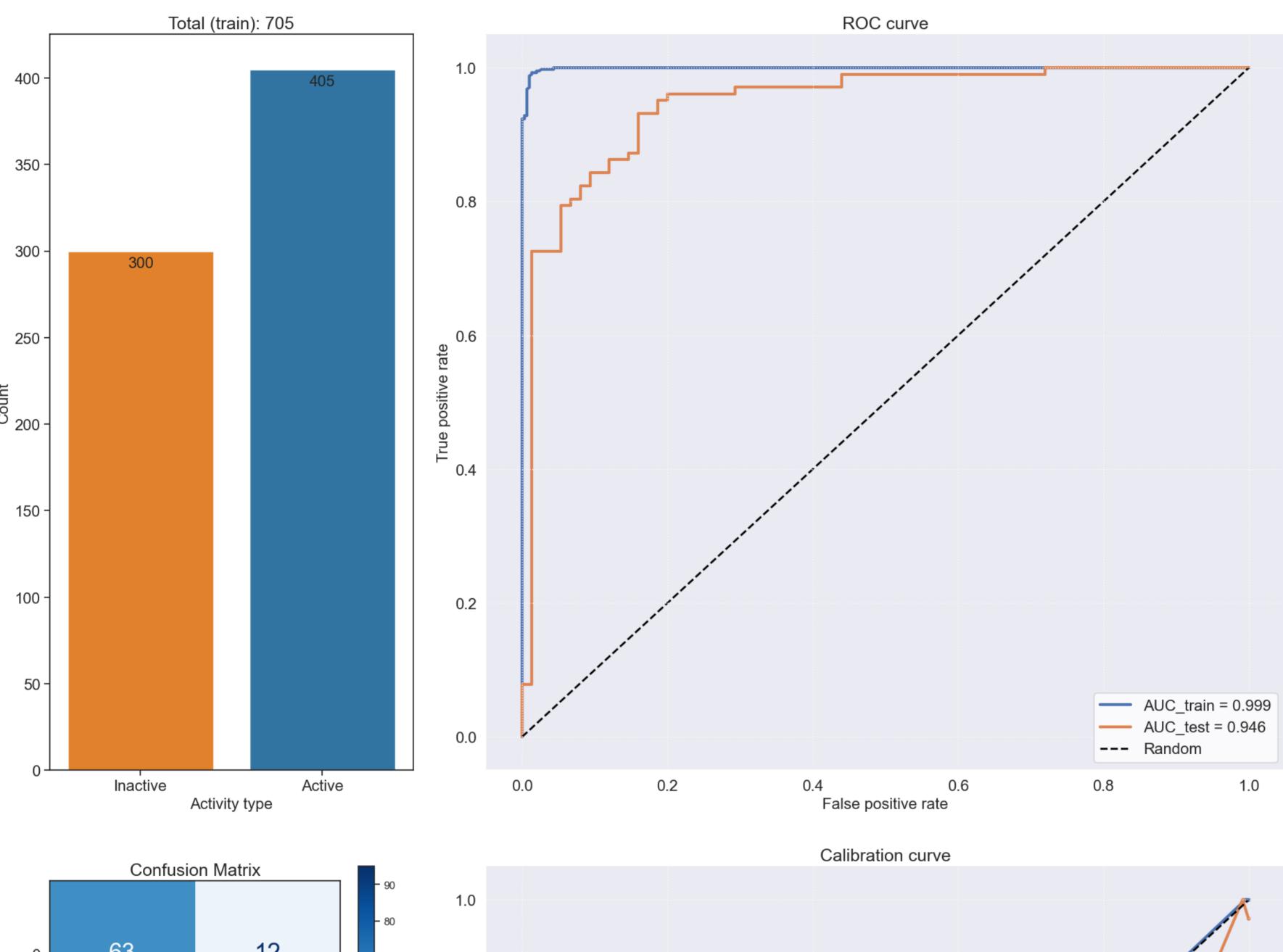
XGBoost Parameters	Value
alpha	2.5844
colsample_bytree	0.8194
gamma	0.329
lambda	4.2764
learning_rate	0.1369
max_depth	7.0
min_child_weight	3.0
n_estimators	759.0
reg_alpha	0.8019
reg_lambda	0.0172
scale_pos_weight	4.3846
subsample	0.8016

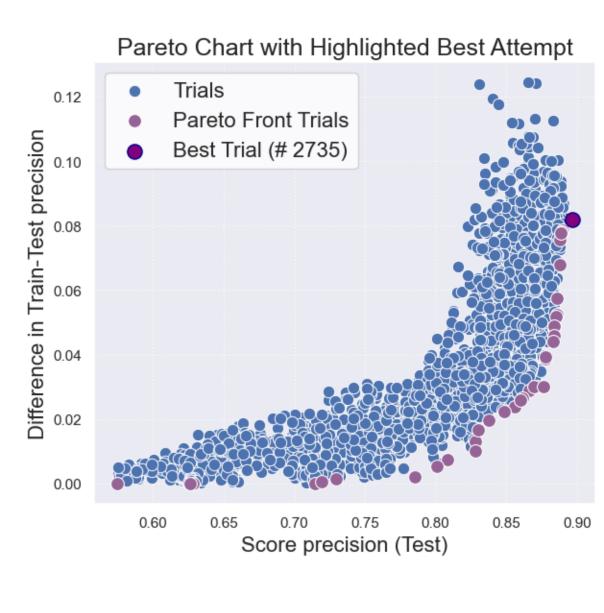
	Canfusia	on Matrice	_			Calibration of	curve	
label O		n Matrix 10	- 80 - 60	1.0				
True la	4	98	- 40 - 20	0.8				
		d ed label latrix (nomr.)	Fraction of positives	0.6		, and a second		
True label	0.87	0.13	- 0.8 - 0.6	0.2	and the second of the second o			
고 1-	0.039	0.96	- 0.4 - 0.2	0.0				train: 0.0192 test: 0.0659 perfectly_calibrated
	0 Predicte	1 ed label		0.0	0.2	0.4 Mean predicted p	0.6 probability	0.8 1.0

			Active/Inactiv	e probability			
50	In	active zone			Active 2		type active (102) inactive (75) decoy (177)
40							
Percent 05							
10							
0 —				<u></u>			
	0.0	0.2	0.4 Proba	0.6 bility	0.	.8	1.0

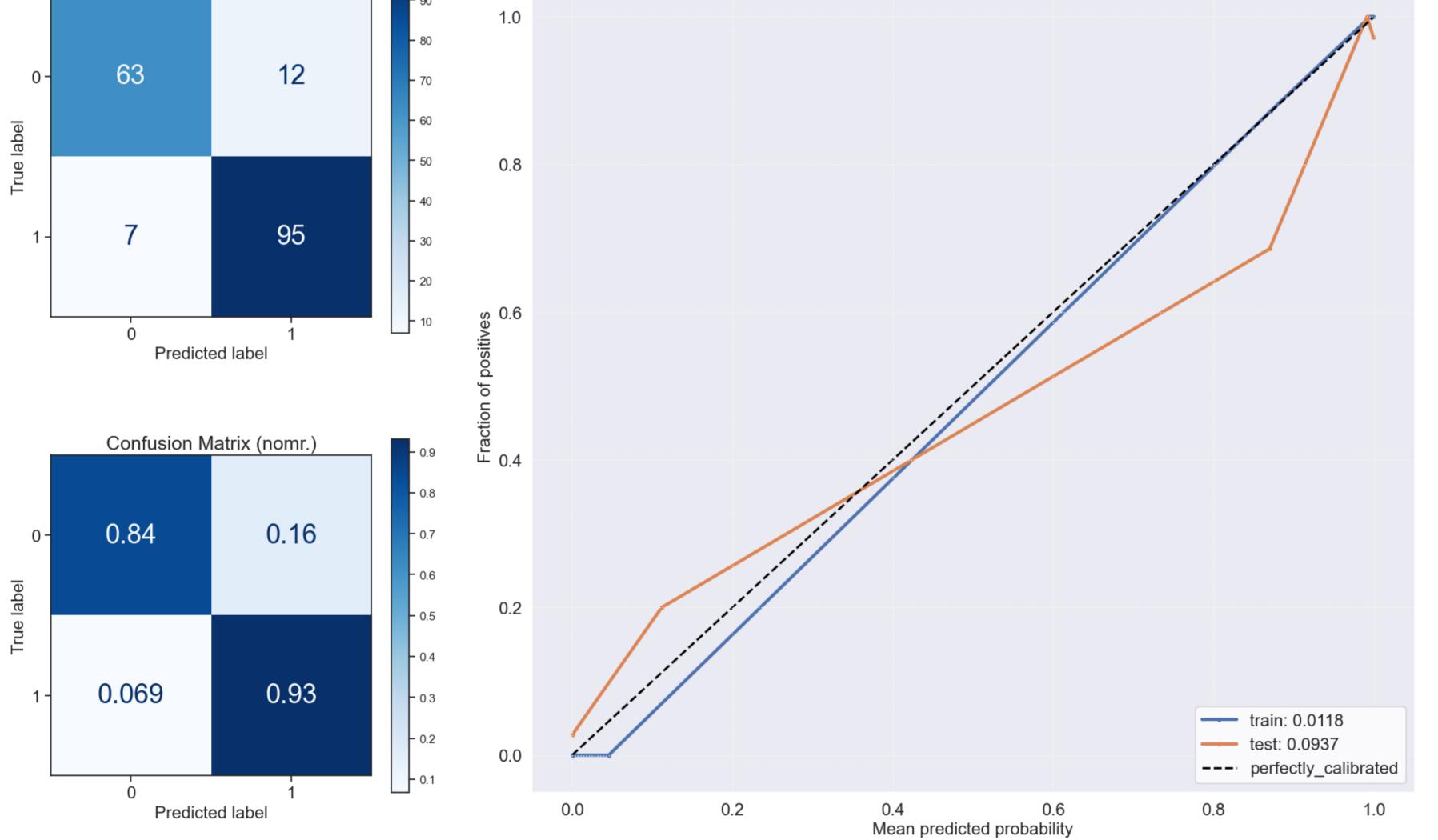
Metric	Train	Test
AUC	0.9994	0.9684
accuracy	0.9745	0.9209
balanced accuracy	0.97	0.9137
recall_(sens)	1.0	0.9608
specificity	0.94	0.8667
precision	0.9574	0.9074
f1_score	0.9744	0.9204

Protein: P43681 - metric: precision



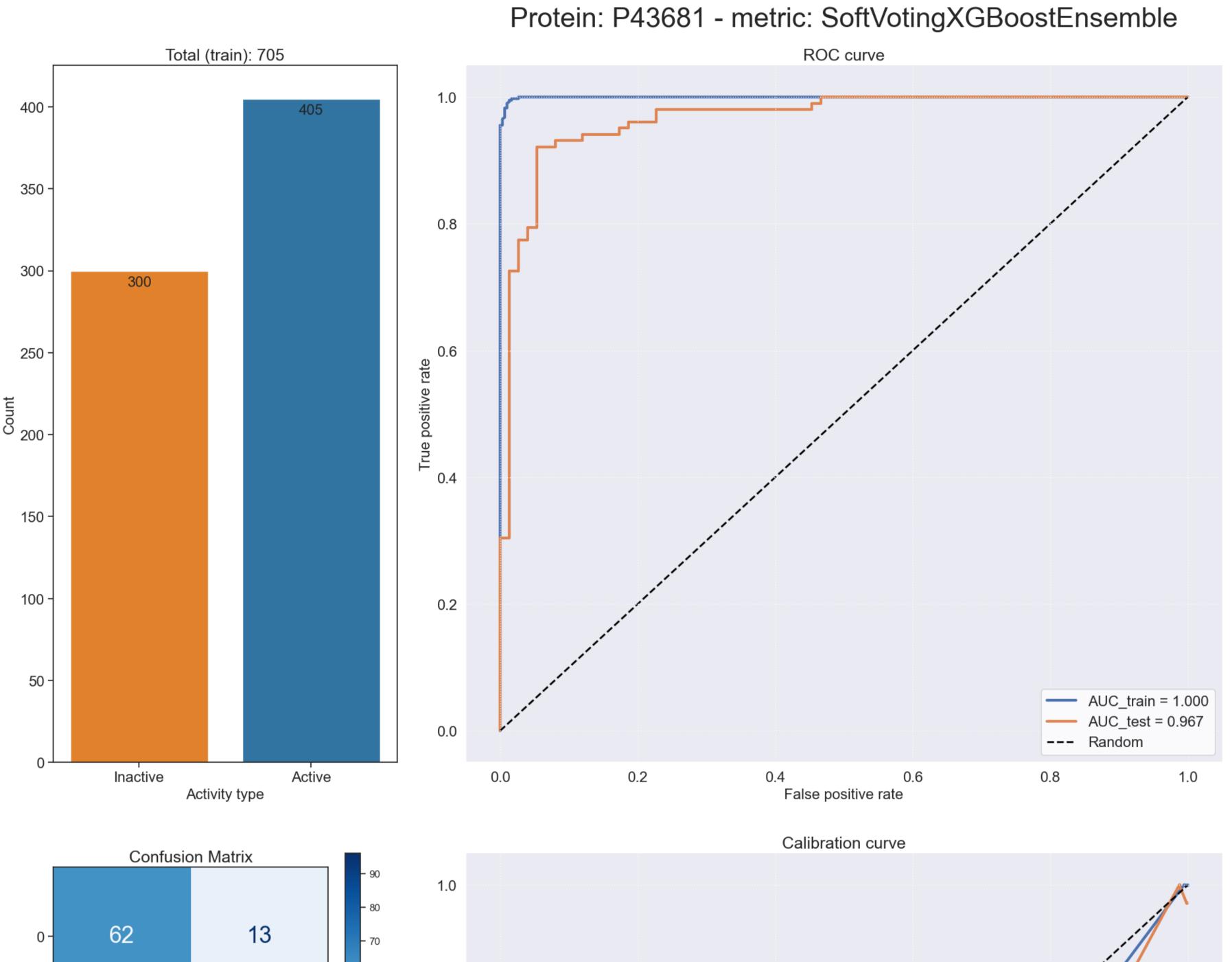


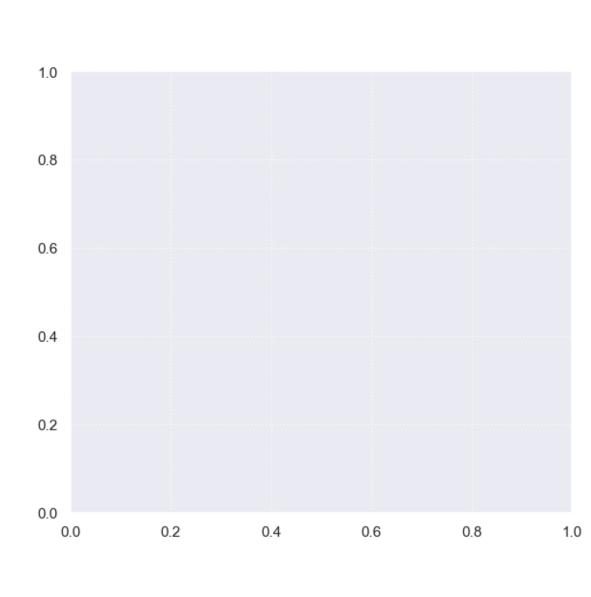
XGBoost Parameters	Value
alpha	3.8293
colsample_bytree	0.7898
gamma	0.7943
lambda	2.4134
learning_rate	0.5824
max_depth	10.0
min_child_weight	2.0
n_estimators	462.0
reg_alpha	0.1484
reg_lambda	0.0491
scale_pos_weight	1.7222
subsample	0.5384

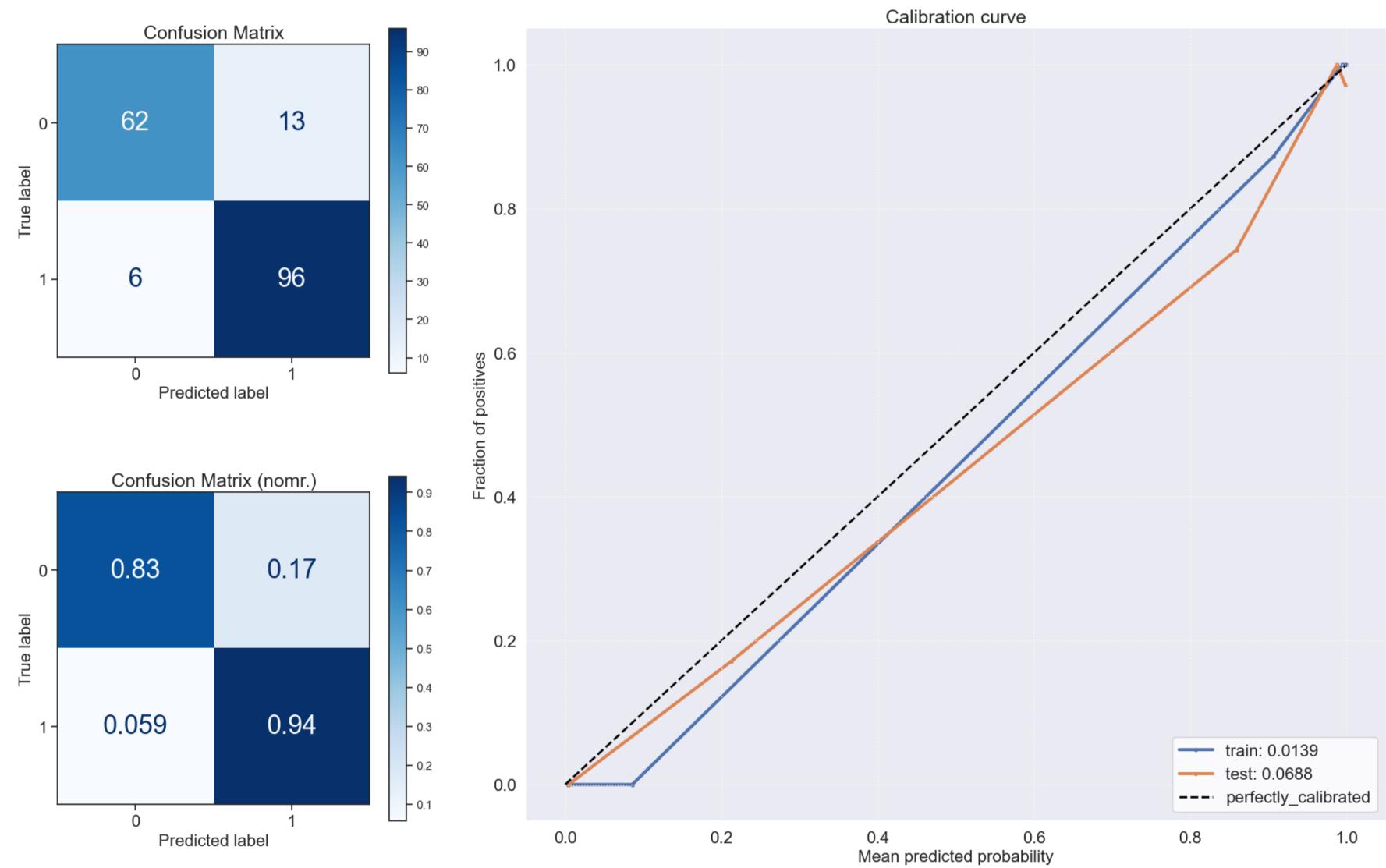


60 -		Active/Inactive p			
00	Inactive zon	е	Active	zone type active (inactive	(102) e (75)
50				decoy ((177)
40					
Percent 000					
20					
0-					
,	0.0 0.2	0.4 Probabilit	0.6 y	0.8 1.0	0

Metric	Train	Test
AUC	0.9992	0.9463
accuracy	0.9887	0.8927
balanced accuracy	0.9875	0.8857
recall_(sens)	0.9951	0.9314
specificity	0.98	0.84
precision	0.9853	0.8879
f1_score	0.9886	0.8921







50 		Inactive zone				inactive (75) decoy (177)
**						
Perce						
40						
0						
	0.0	0.2	0.4 Proba	0.6 ability	0.8	1.0

Active/Inactive probability

Metric	Train	Test
AUC	0.9996	0.9665
accuracy	0.983	0.8927
balanced accuracy	0.98	0.8839
recall_(sens)	1.0	0.9412
specificity	0.96	0.8267
precision	0.9712	0.8807
f1_score	0.9829	0.8918