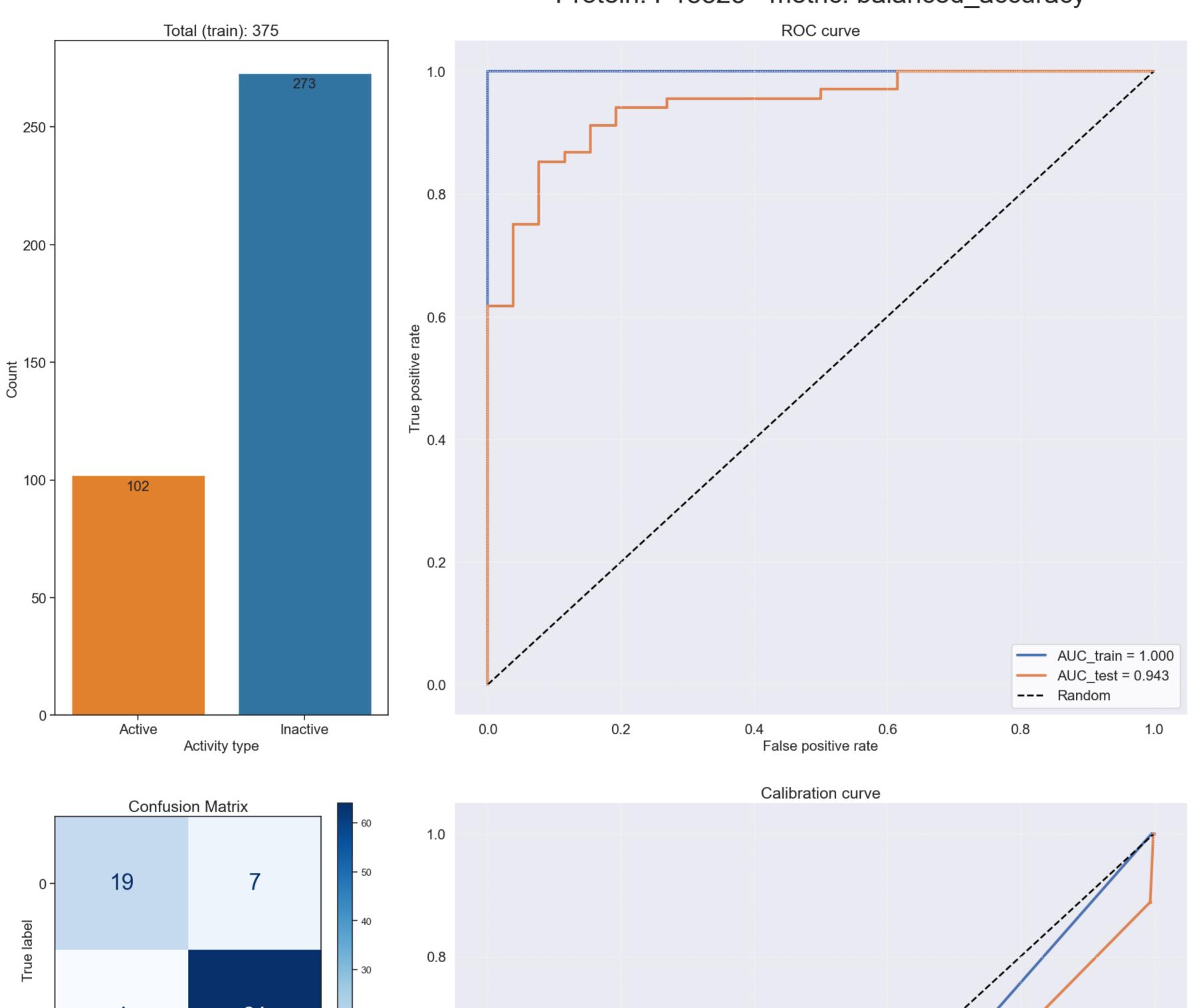
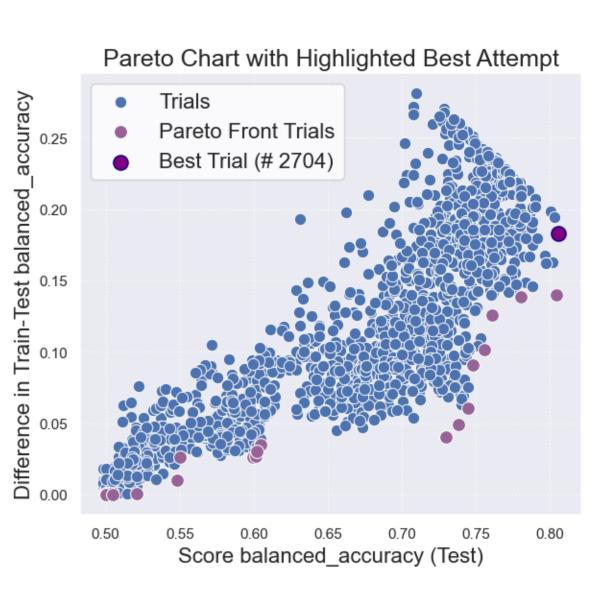
Protein: P18825 - metric: balanced_accuracy





XGBoost Parameters	Value
alpha	2.7618
colsample_bytree	0.8182
gamma	0.9483
lambda	2.8891
learning_rate	0.9165
max_depth	9.0
min_child_weight	1.0
n_estimators	233.0
reg_alpha	0.3858
reg_lambda	0.1582
scale_pos_weight	4.3981
subsample	0.5694

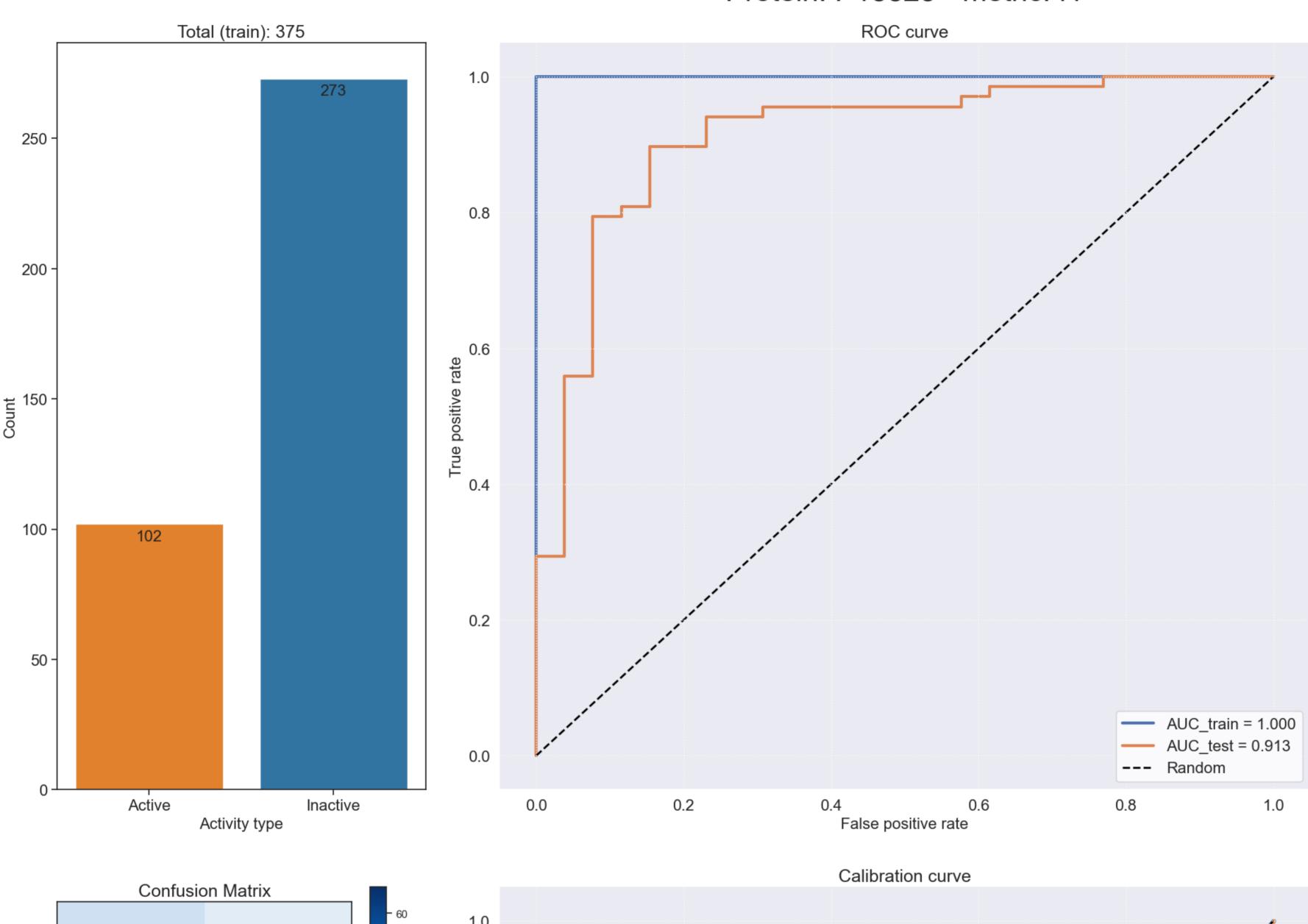
True			- 30	0.0						
1-	4	64	- 20					ممر		
	0 Predicte	1 ed label	- 10	n of positives 9.0			, market			
	Confusion M	latrix (nomr.)	- 0.9	Fraction 4.0						
label O	0.73	0.27	- 0.8 - 0.7 - 0.6	0.2						
True label	0.059	0.94	- 0.5 - 0.4 - 0.3 - 0.2 - 0.1	0.0					train: 0.00 test: 0.09	
	0 Predicte	1 ed label			0.0	0.2	0.4 Mean predicted	0.6 probability	0.8	1.0

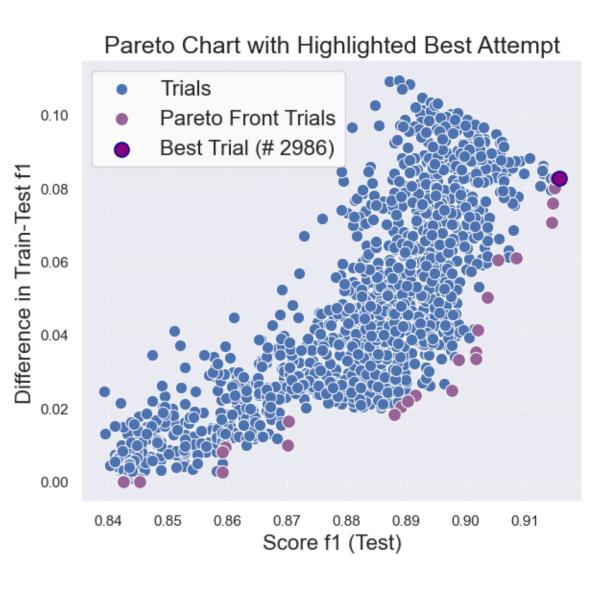
		Inactive zo							type active (68) inactive (26) decoy (94)
50									
Perc 4									
20									
10		_			П			п п	
0 —	0.0	0.2	0.4	l Proba	0.0 ability	6	0.8		1.0

Active/Inactive probability

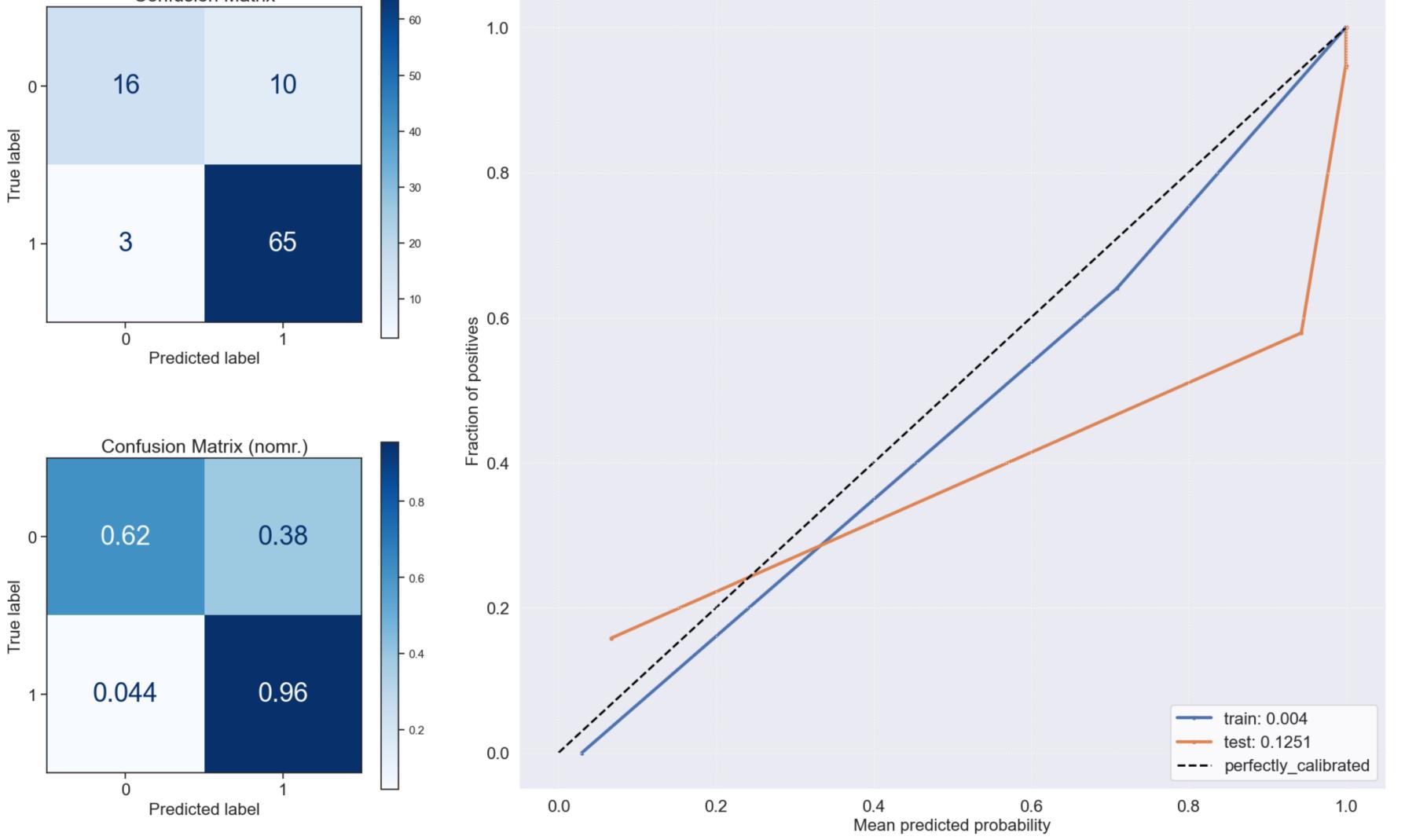
Metric	Train	Test
AUC	1.0	0.9434
accuracy	0.9947	0.883
balanced accuracy	0.9902	0.836
recall_(sens)	1.0	0.9412
specificity	0.9804	0.7308
precision	0.9927	0.9014
f1_score	0.9946	0.8807

Protein: P18825 - metric: f1





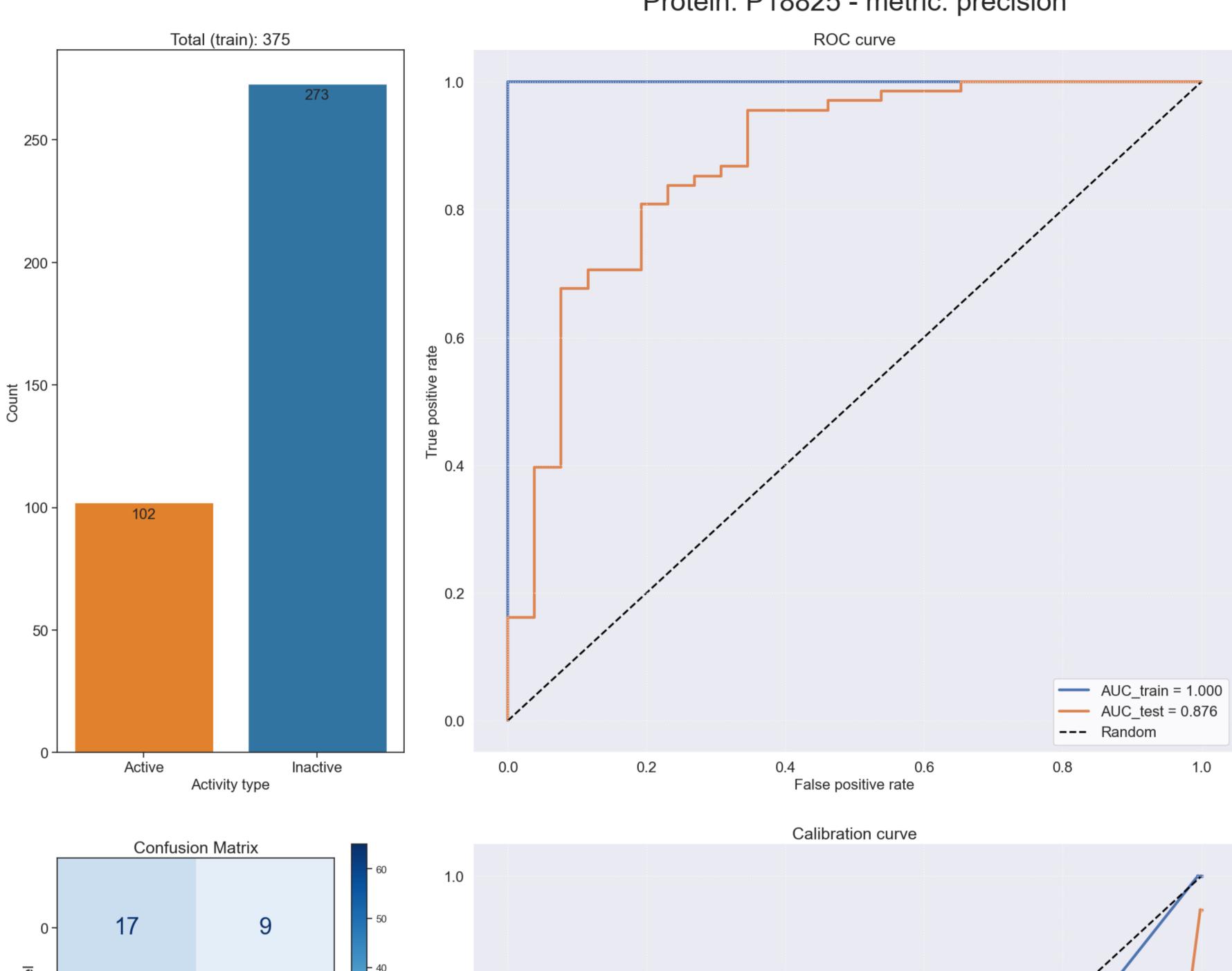
XGBoost Parameters	Value
alpha	0.5314
colsample_bytree	0.7708
gamma	0.5735
lambda	3.5624
learning_rate	0.446
max_depth	9.0
min_child_weight	1.0
n_estimators	778.0
reg_alpha	0.1799
reg_lambda	0.079
scale_pos_weight	61.435
subsample	0.5362

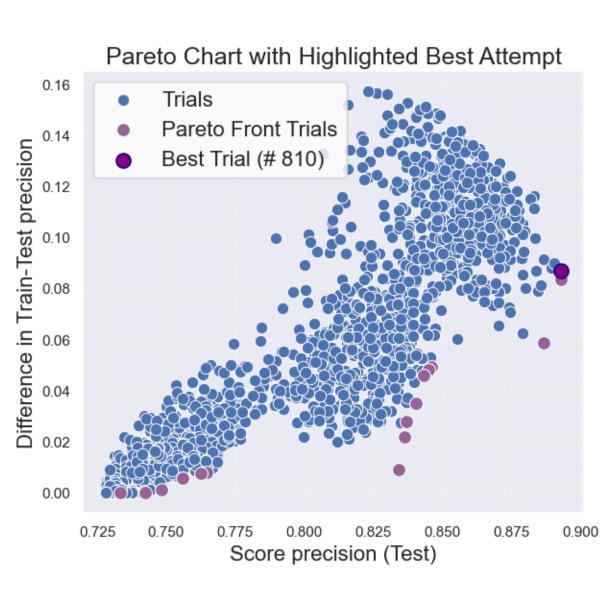


		Act	tive/Inactive proba	ability		
80	Ina	ctive zone		Active		type active (68) inactive (26) decoy (94)
60						
Percent 0						
20						
0 —	0.0	.2 0.	4	0.6	0.8	1.0
			Probability			

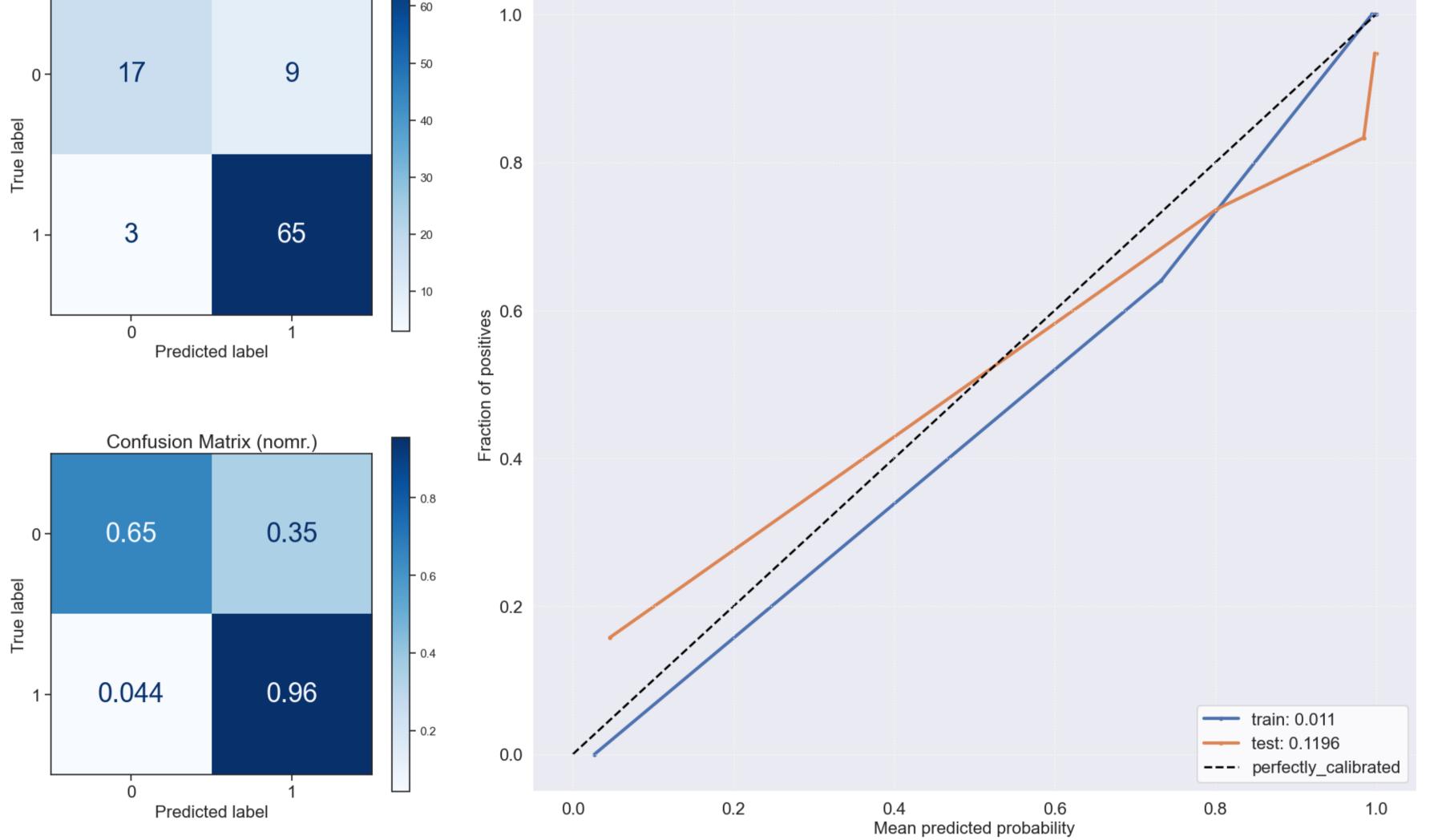
Metric	Train	Test
AUC	1.0	0.9129
accuracy	0.9973	0.8617
balanced accuracy	0.9951	0.7856
recall_(sens)	1.0	0.9559
specificity	0.9902	0.6154
precision	0.9964	0.8667
f1_score	0.9973	0.8543

Protein: P18825 - metric: precision



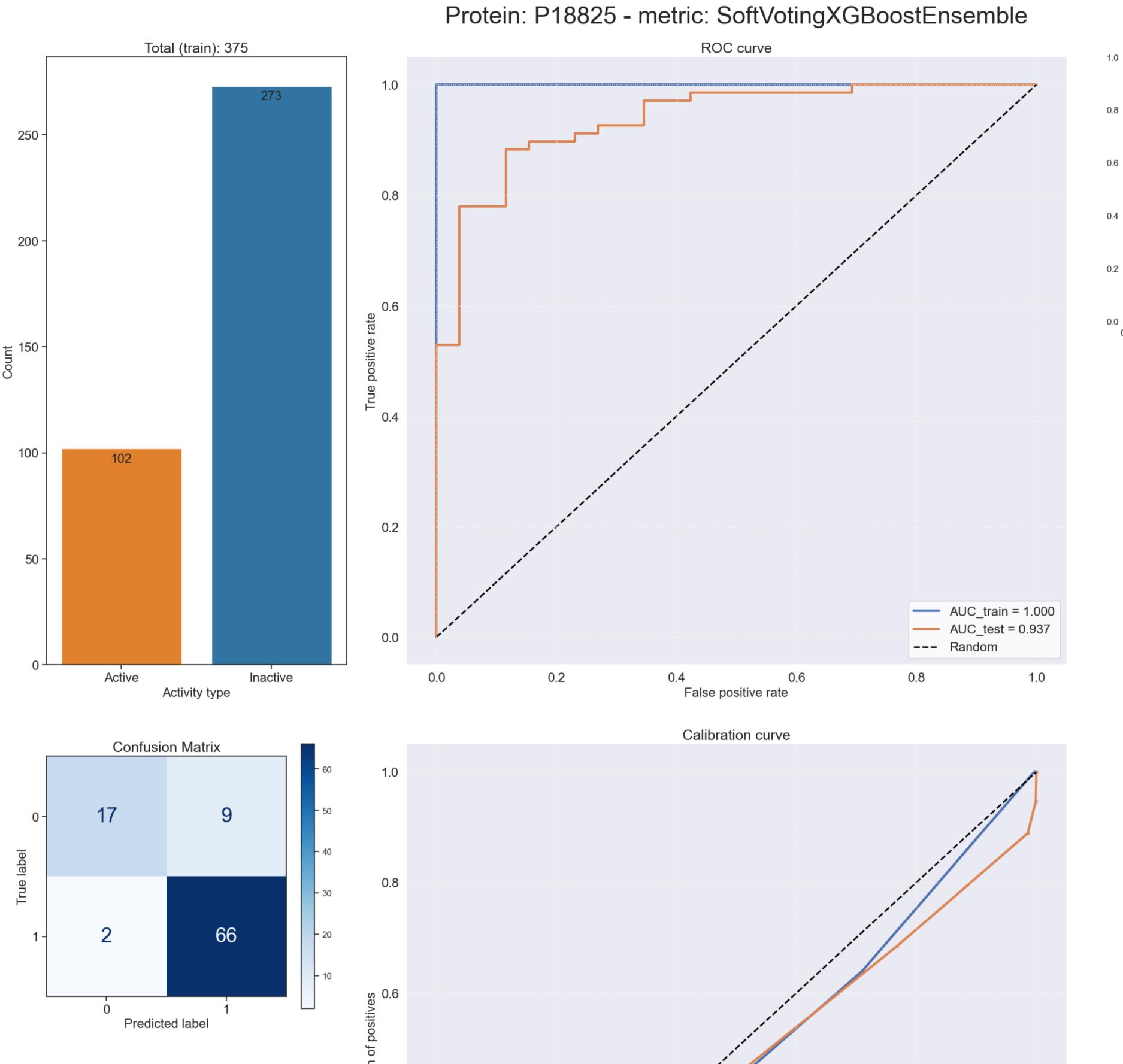


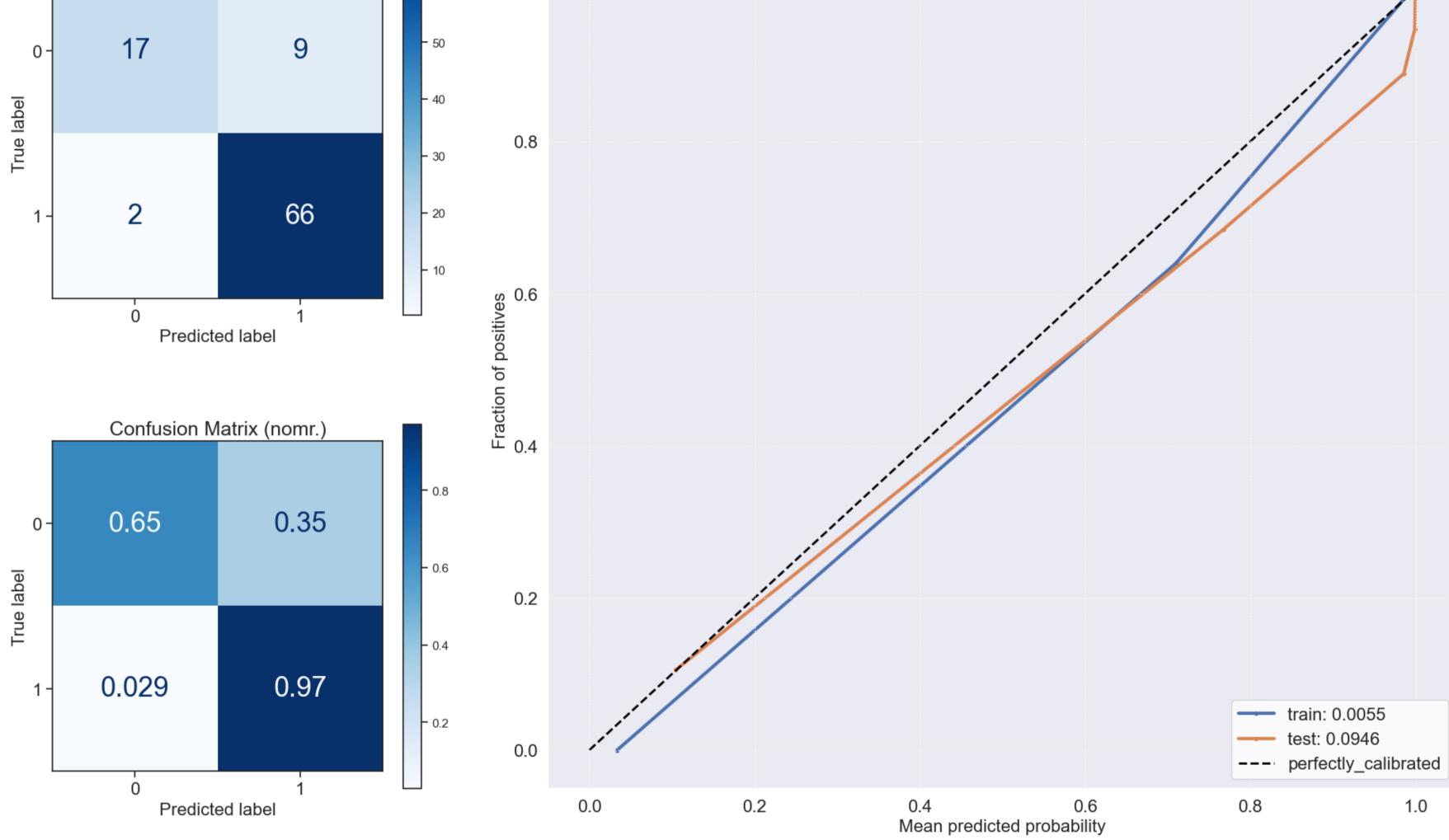
XGBoost Parameters	Value
alpha	0.4744
colsample_bytree	0.533
gamma	0.7575
lambda	1.0904
learning_rate	0.9313
max_depth	3.0
min_child_weight	2.0
n_estimators	977.0
reg_alpha	0.4535
reg_lambda	0.6041
scale_pos_weight	7.1899
subsample	0.5



		Ac	tive/Inactive	probability	У		
60	Ina	ctive zone			Active	zone	type active (68) inactive (26) decoy (94)
50							
Percent							
20							
10							
0 —	0.0 0.	2 0	.4 Probab	0.6		0.8	1.0

Metric	Train	Test
AUC	1.0	0.8761
accuracy	0.9893	0.8723
balanced accuracy	0.9804	0.8049
recall_(sens)	1.0	0.9559
specificity	0.9608	0.6538
precision	0.9856	0.8784
f1_score	0.9893	0.8667





70			ve probability		
70	Inactive	zone		Active zone	active (68)
50					
± 40					
Percent					
20					
10					
0—	0.0 0.2	0.4 Prob	0.6 ability	0.8	1.0

Metric	Train	Test
AUC	1.0	0.9372
accuracy	0.9947	0.883
balanced accuracy	0.9902	0.8122
recall_(sens)	1.0	0.9706
specificity	0.9804	0.6538
precision	0.9927	0.88
f1_score	0.9946	0.8767

0.2

0.6

0.0