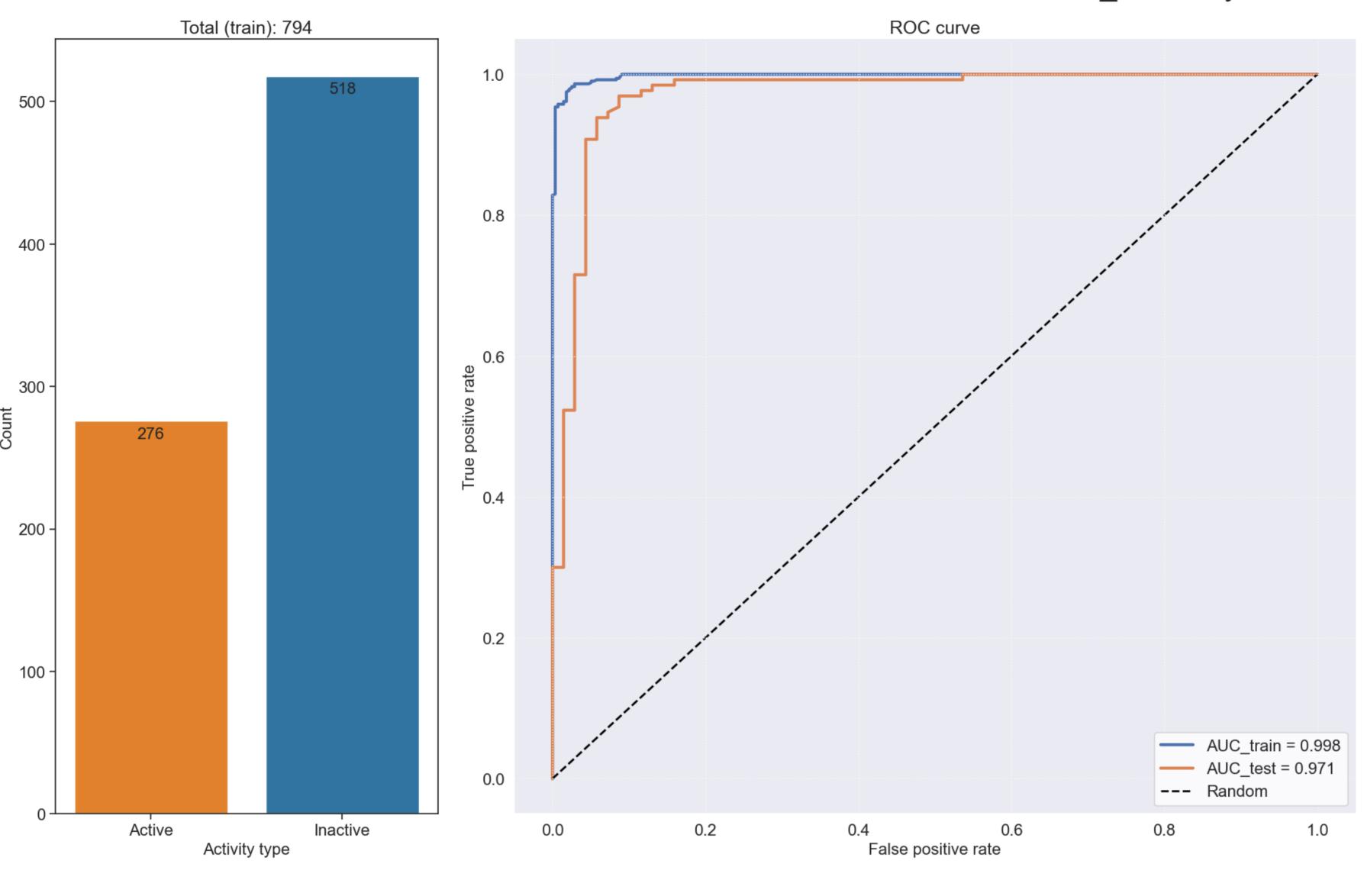
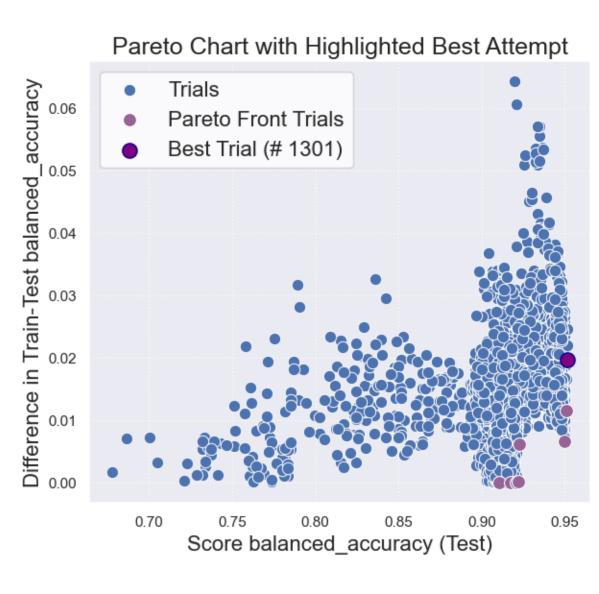
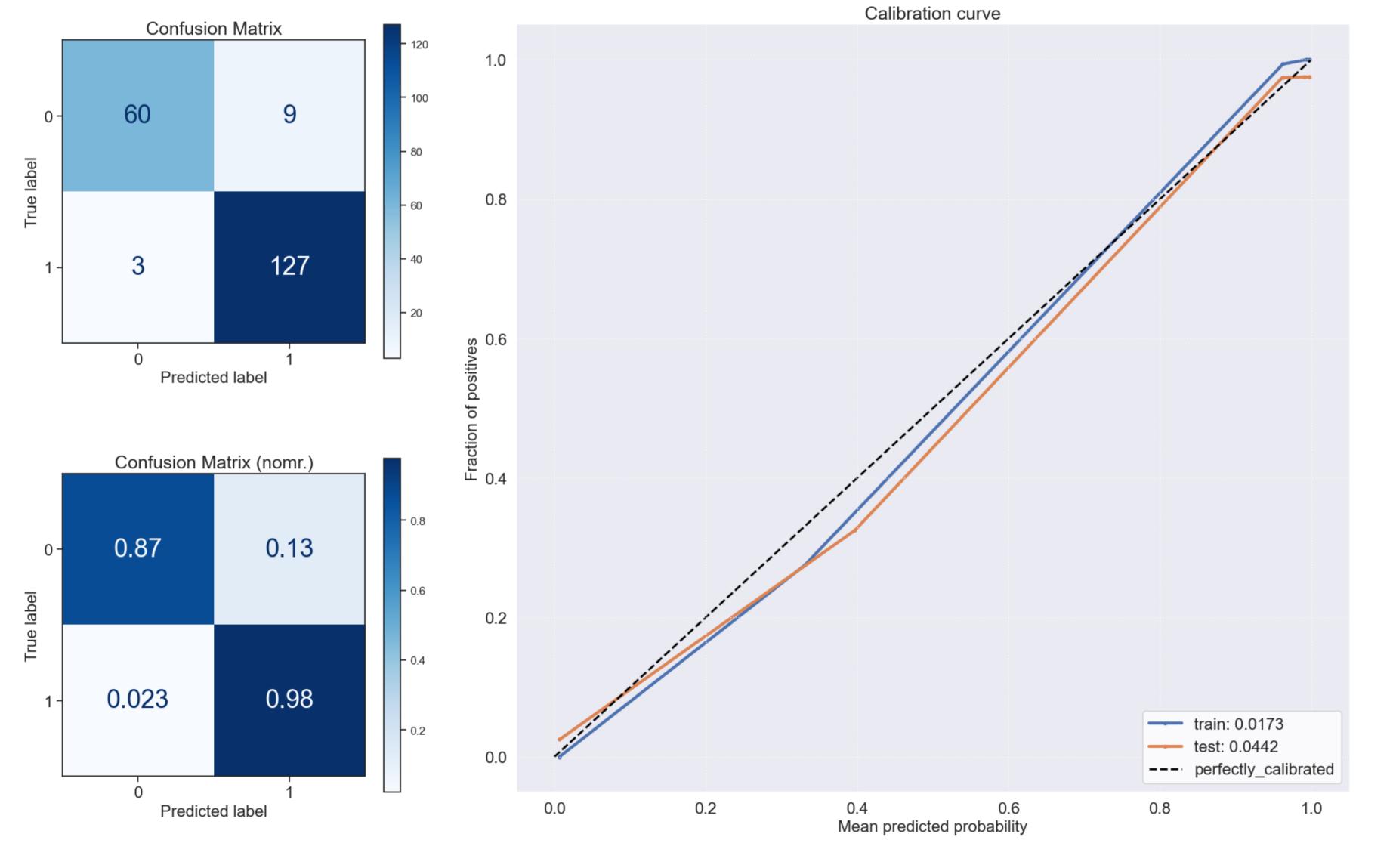
Protein: P30556 - metric: balanced_accuracy





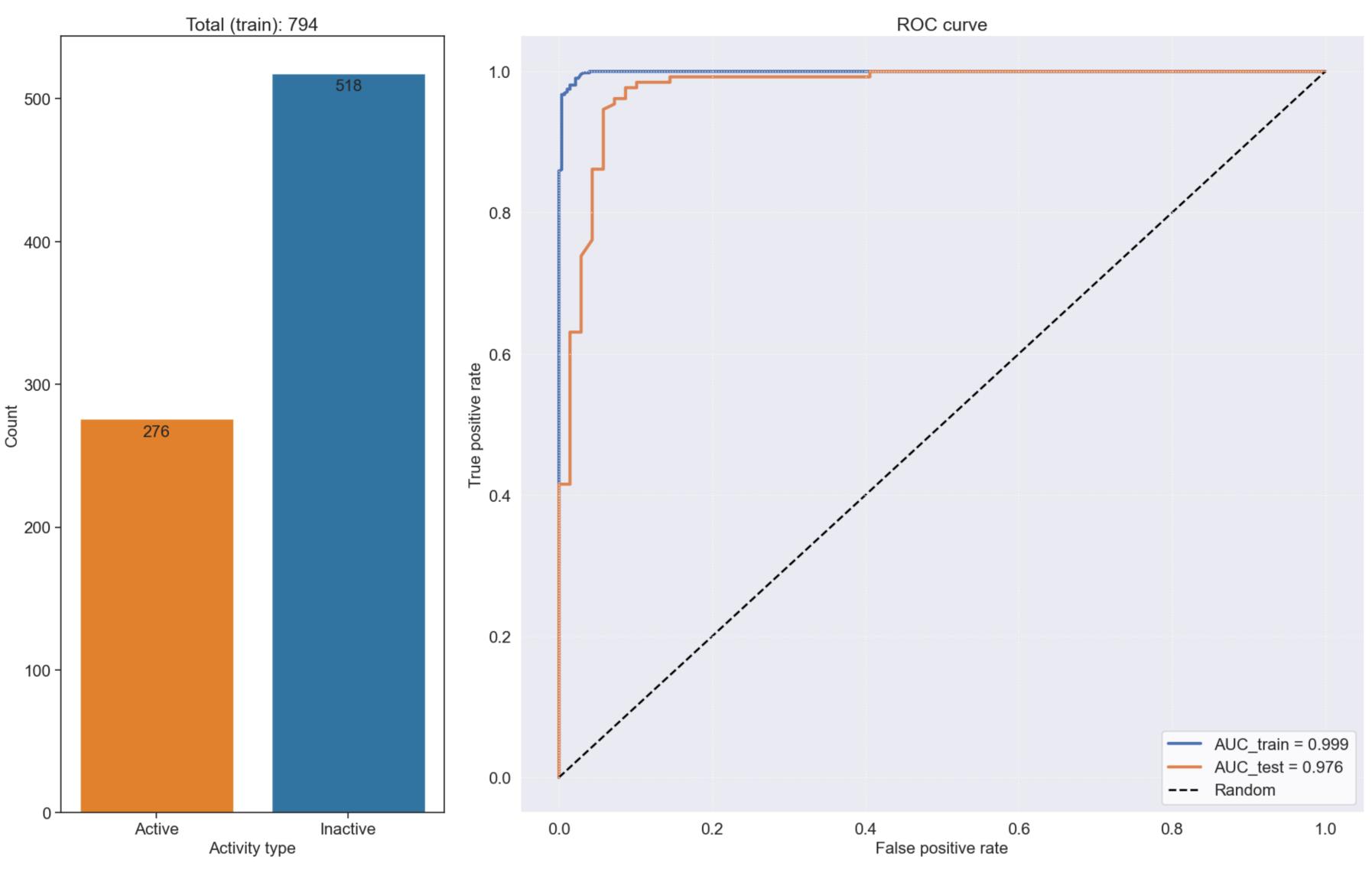
XGBoost Parameters	Value
alpha	1.2623
colsample_bytree	0.5072
gamma	0.6691
lambda	3.6453
learning_rate	0.0415
max_depth	3.0
min_child_weight	2.0
n_estimators	470.0
reg_alpha	0.3109
reg_lambda	0.8643
scale_pos_weight	1.1914
subsample	0.8017

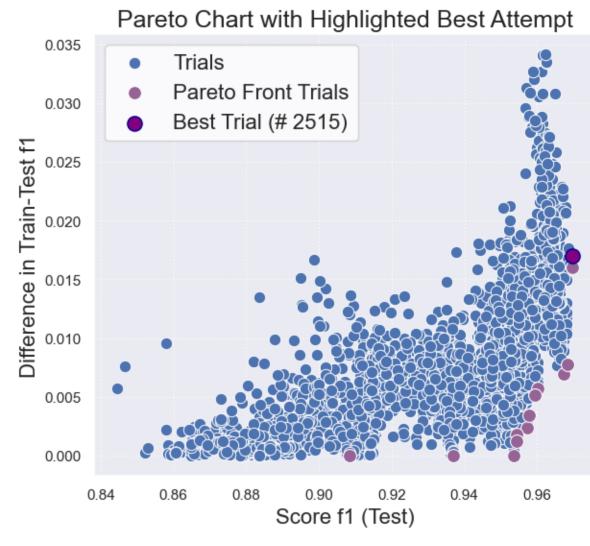


	Active/Inactive probability						
50	In	active zone			Active zo	one = a	type active (130) nactive (69) lecoy (199)
40							
Percent							
10							
0	0.0	0.2	0.4	0.6	0.8		1.0
	Probability						

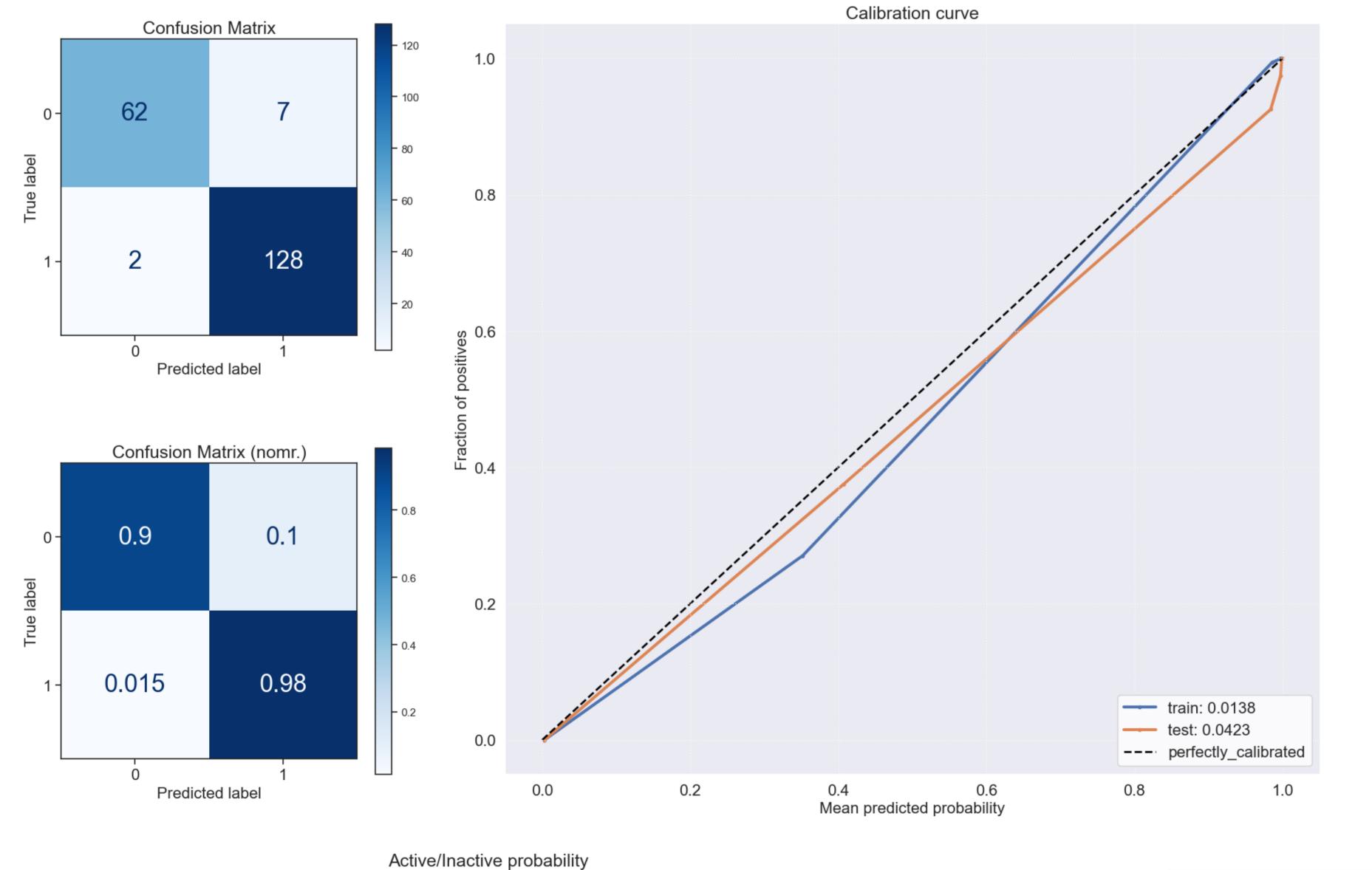
Metric	Train	Test
AUC	0.998	0.9713
accuracy	0.9761	0.9397
balanced accuracy	0.9698	0.9232
recall_(sens)	0.9903	0.9769
specificity	0.9493	0.8696
precision	0.9734	0.9338
f1_score	0.976	0.939

Protein: P30556 - metric: f1





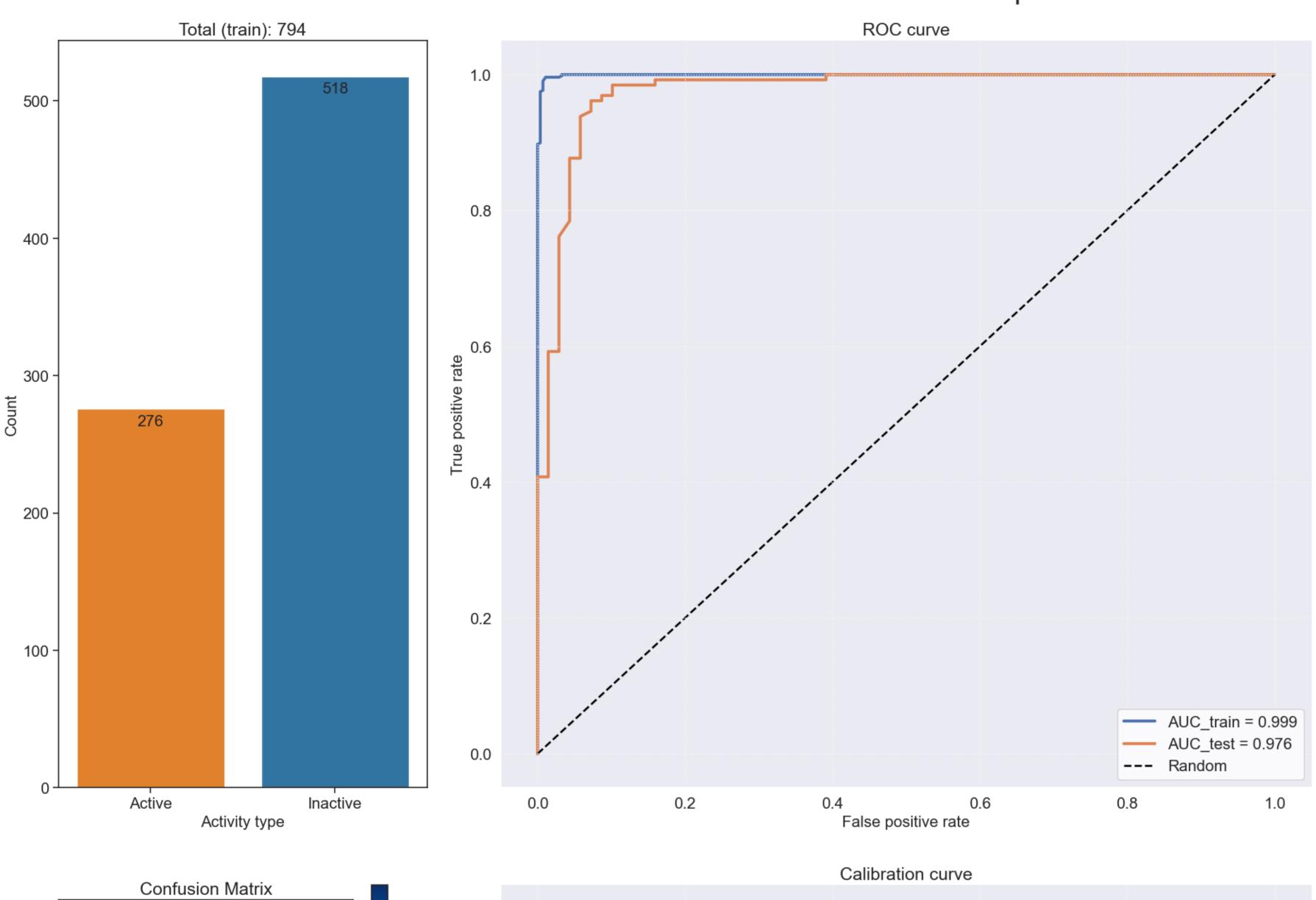
XGBoost Parameters	Value
alpha	0.4348
colsample_bytree	0.8012
gamma	0.0465
lambda	1.2985
learning_rate	0.0322
max_depth	7.0
min_child_weight	3.0
n_estimators	480.0
reg_alpha	0.6542
reg_lambda	0.0976
scale_pos_weight	2.556
subsample	0.8778

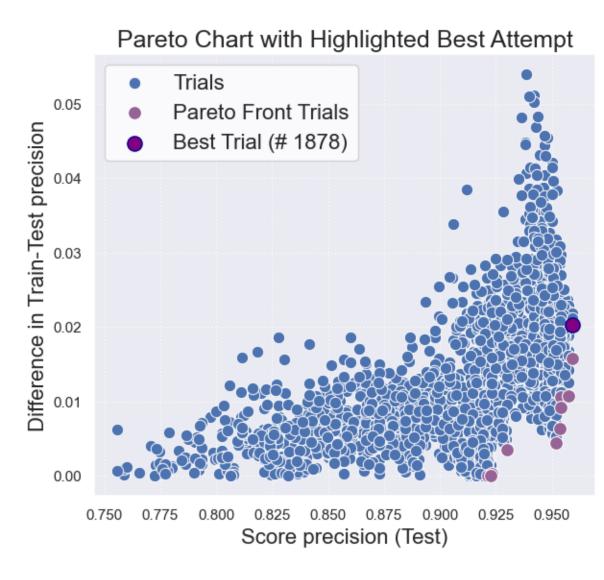


			Active/inactive	ve probability		
70					<u> </u>	type
70		Inactive zone			Active zone	active (130) inactive (69)
60						decoy (199)
50						
40						
Percent 05						
30				l		
00						
20						
10						
0 —	00		04	0.6	0.8	10
0.0 0.2 0.4 0.6 0.8 1.0 Probability						
				•		

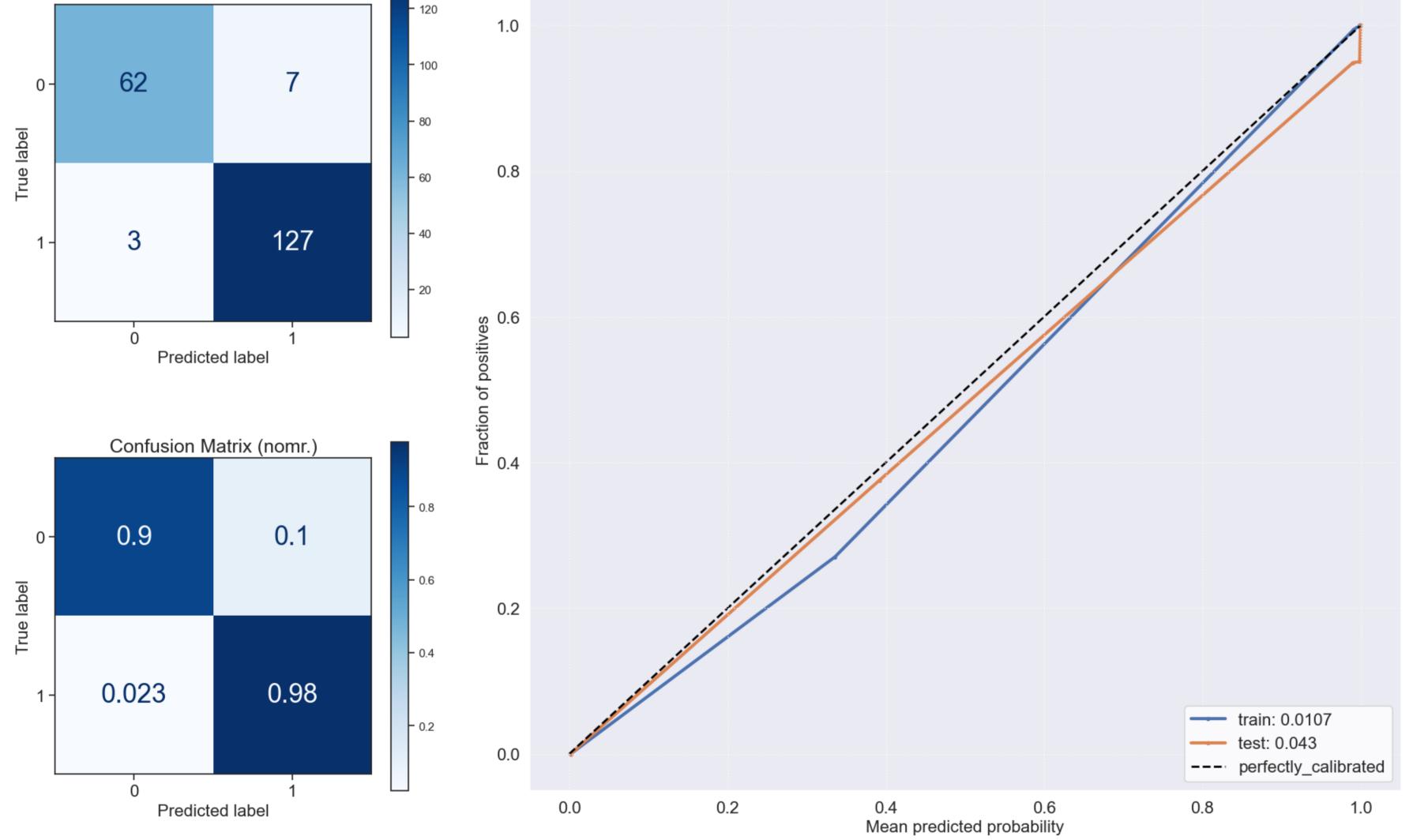
Metric	Train	Test
AUC	0.999	0.9763
accuracy	0.9811	0.9548
balanced accuracy	0.9728	0.9416
recall_(sens)	1.0	0.9846
specificity	0.9457	0.8986
precision	0.9719	0.9481
f1_score	0.981	0.9544

Protein: P30556 - metric: precision





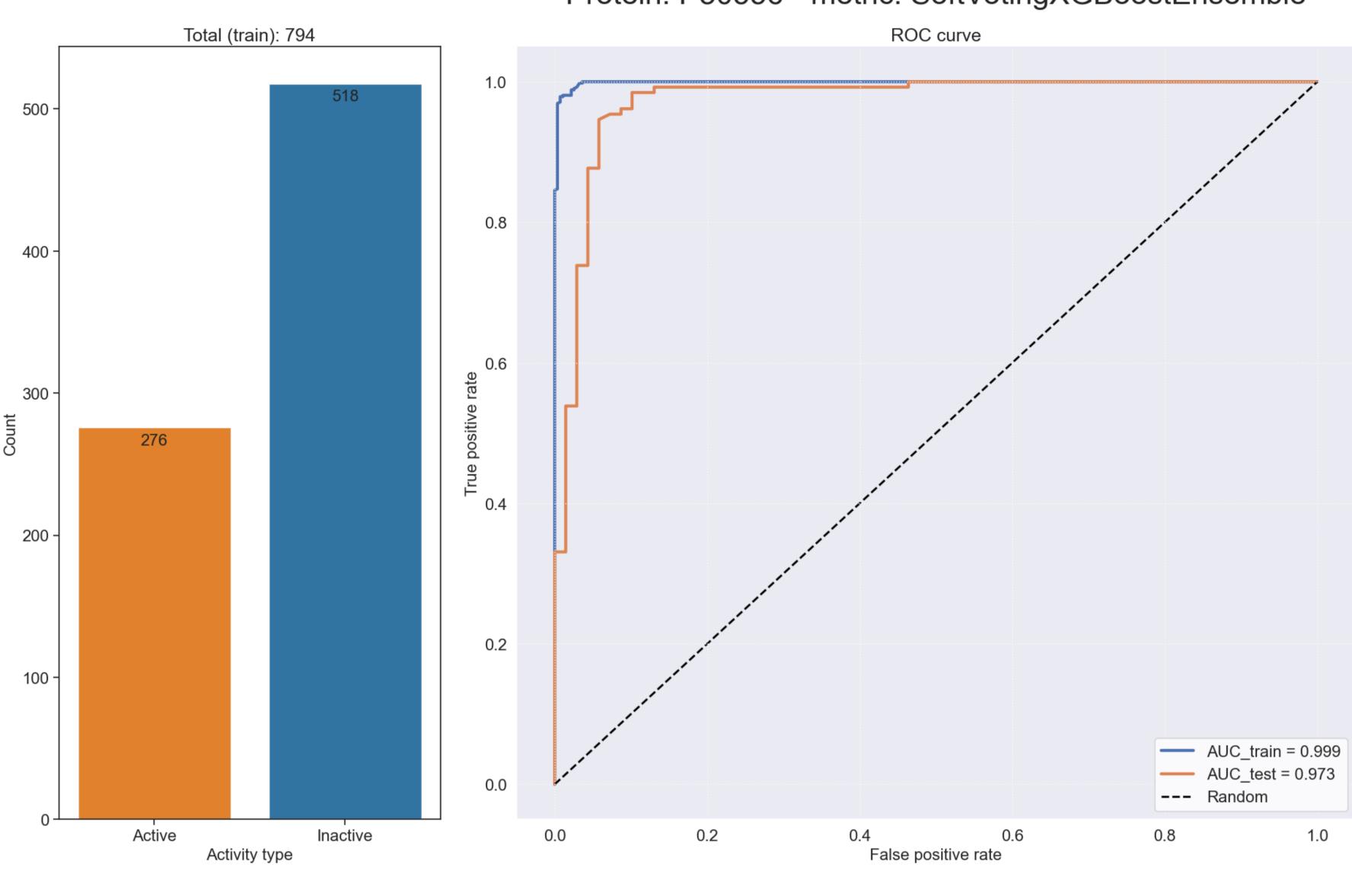
XGBoost Parameters	Value
alpha	2.4309
colsample_bytree	0.5427
gamma	0.1158
lambda	0.3695
learning_rate	0.1247
max_depth	10.0
min_child_weight	3.0
n_estimators	157.0
reg_alpha	0.0054
reg_lambda	0.0535
scale_pos_weight	2.7623
subsample	0.9357

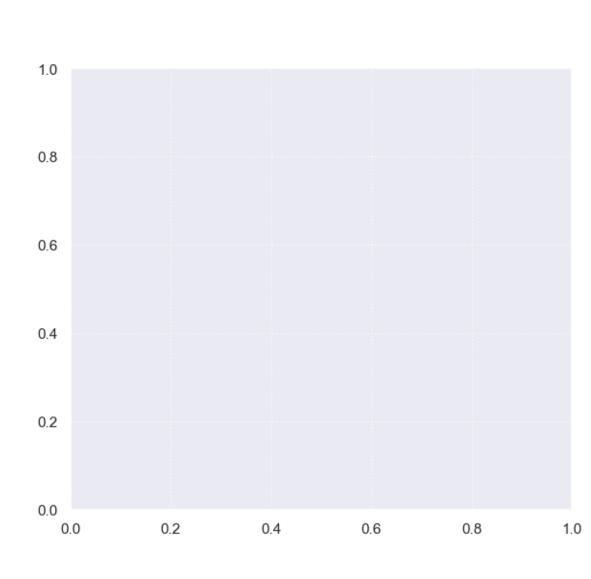


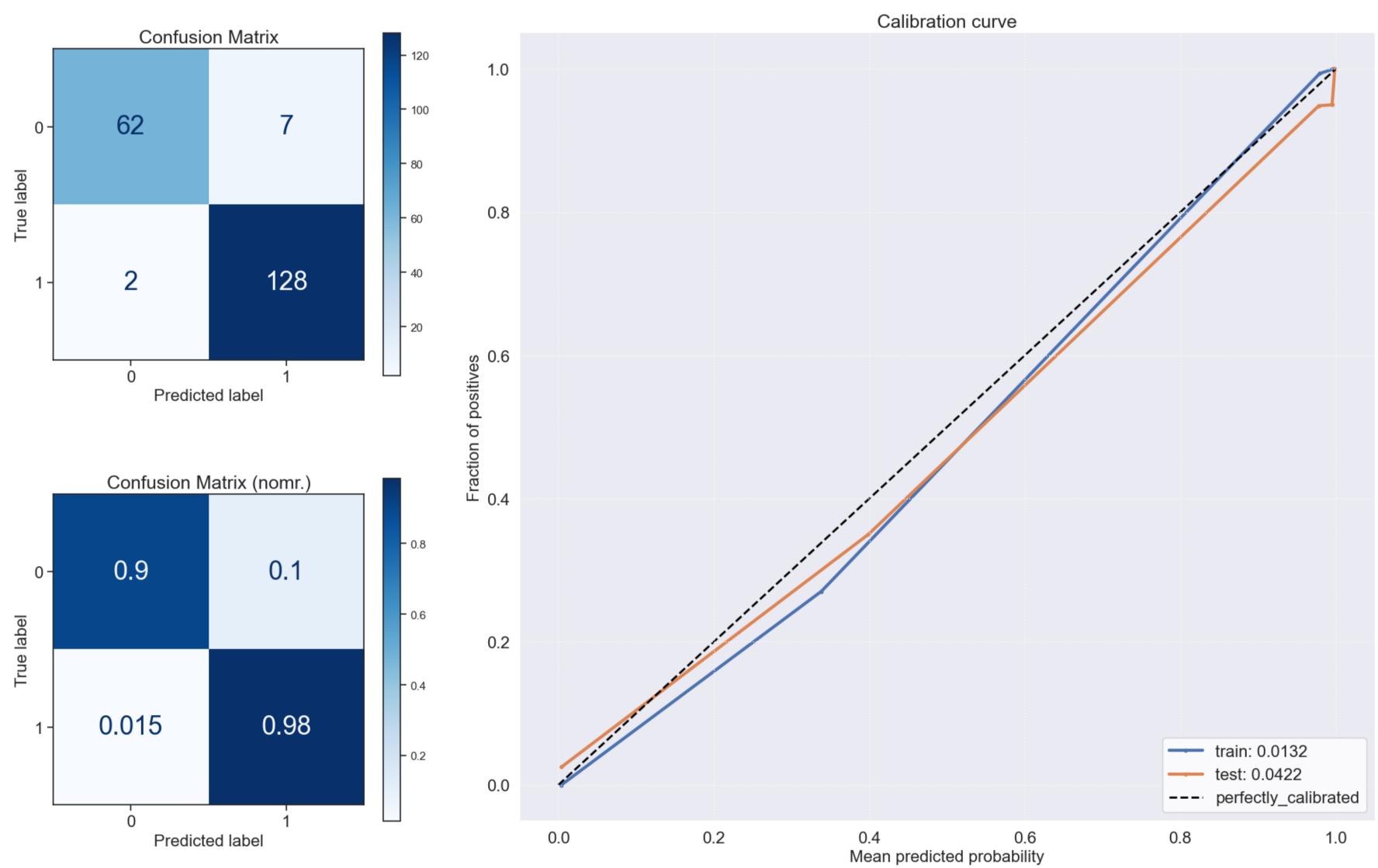
			Active/Ind	active probabi	lity		
70		Inactive zon	e		Active	zone ac	tive (130) active (69)
60						de	ecoy (199)
Percent 05 05							
30							
20							
10							
U -	0.0	0.2	0.4 F	0. Probability	6 0	0.8	1.0

Metric	Train	Test
AUC	0.9994	0.9759
accuracy	0.9849	0.9497
balanced accuracy	0.9783	0.9377
recall_(sens)	1.0	0.9769
specificity	0.9565	0.8986
precision	0.9774	0.9478
f1_score	0.9848	0.9494

Protein: P30556 - metric: SoftVotingXGBoostEnsemble







		Ac	tive/Inactive	e probability		
60		active zone			Active zone	type active (130) inactive (69) decoy (199)
40						
Percent						
20						
0	0.0	0.2	0.4	0.6	0.8	1.0
	Probability					

Metric	Train	Test
AUC	0.999	0.9731
accuracy	0.9836	0.9548
balanced accuracy	0.9764	0.9416
recall_(sens)	1.0	0.9846
specificity	0.9529	0.8986
precision	0.9755	0.9481
f1_score	0.9835	0.9544