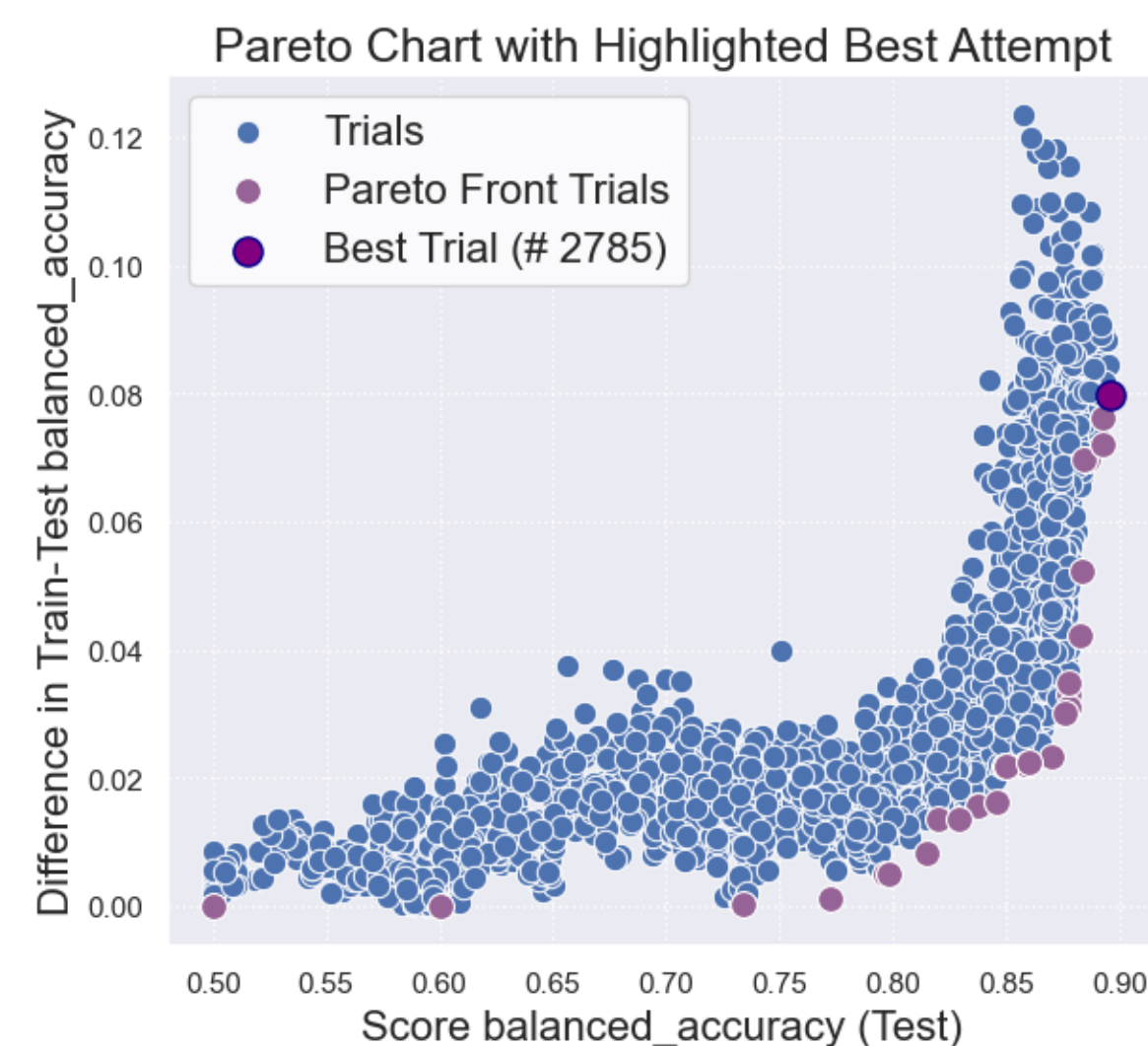
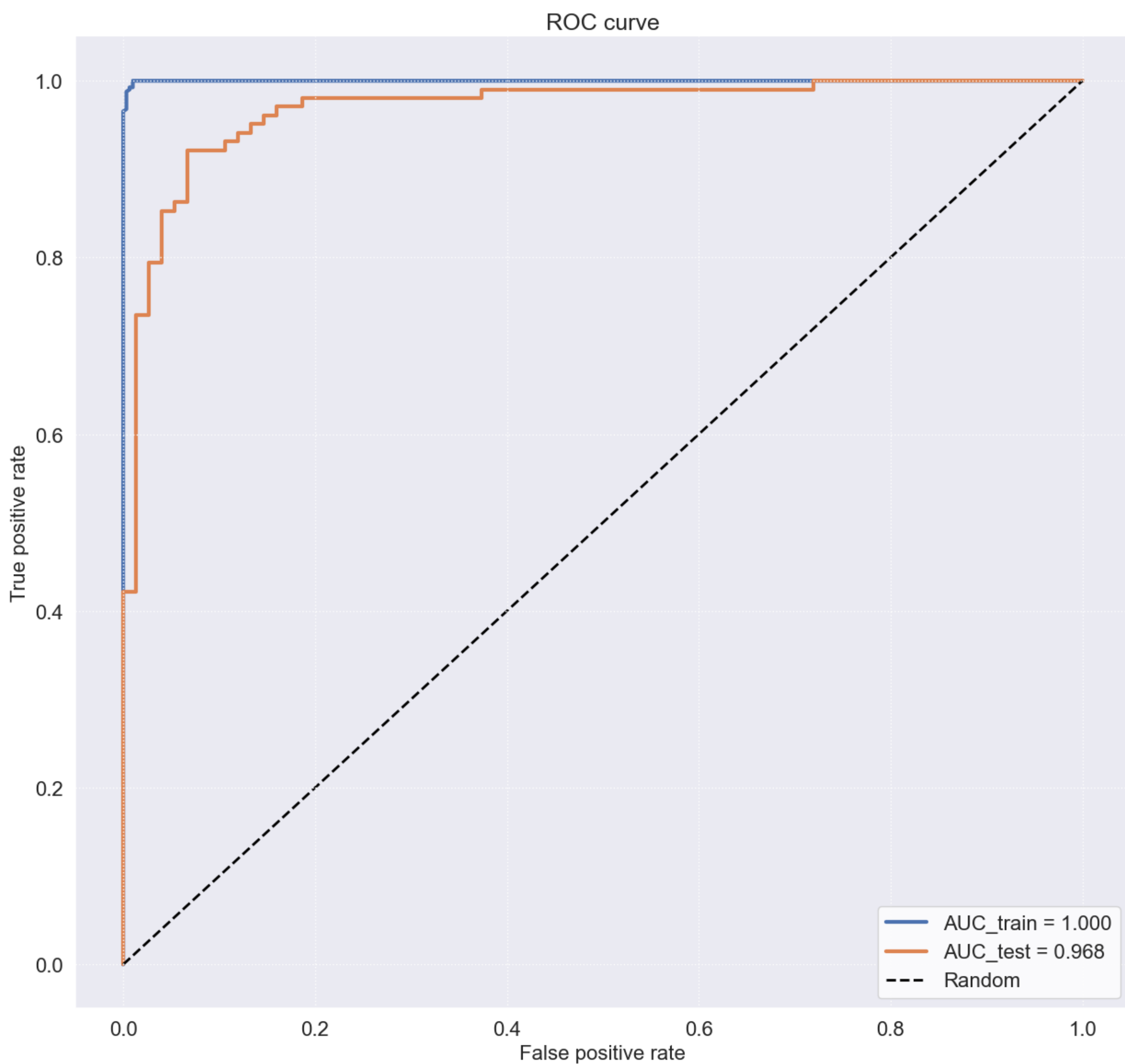
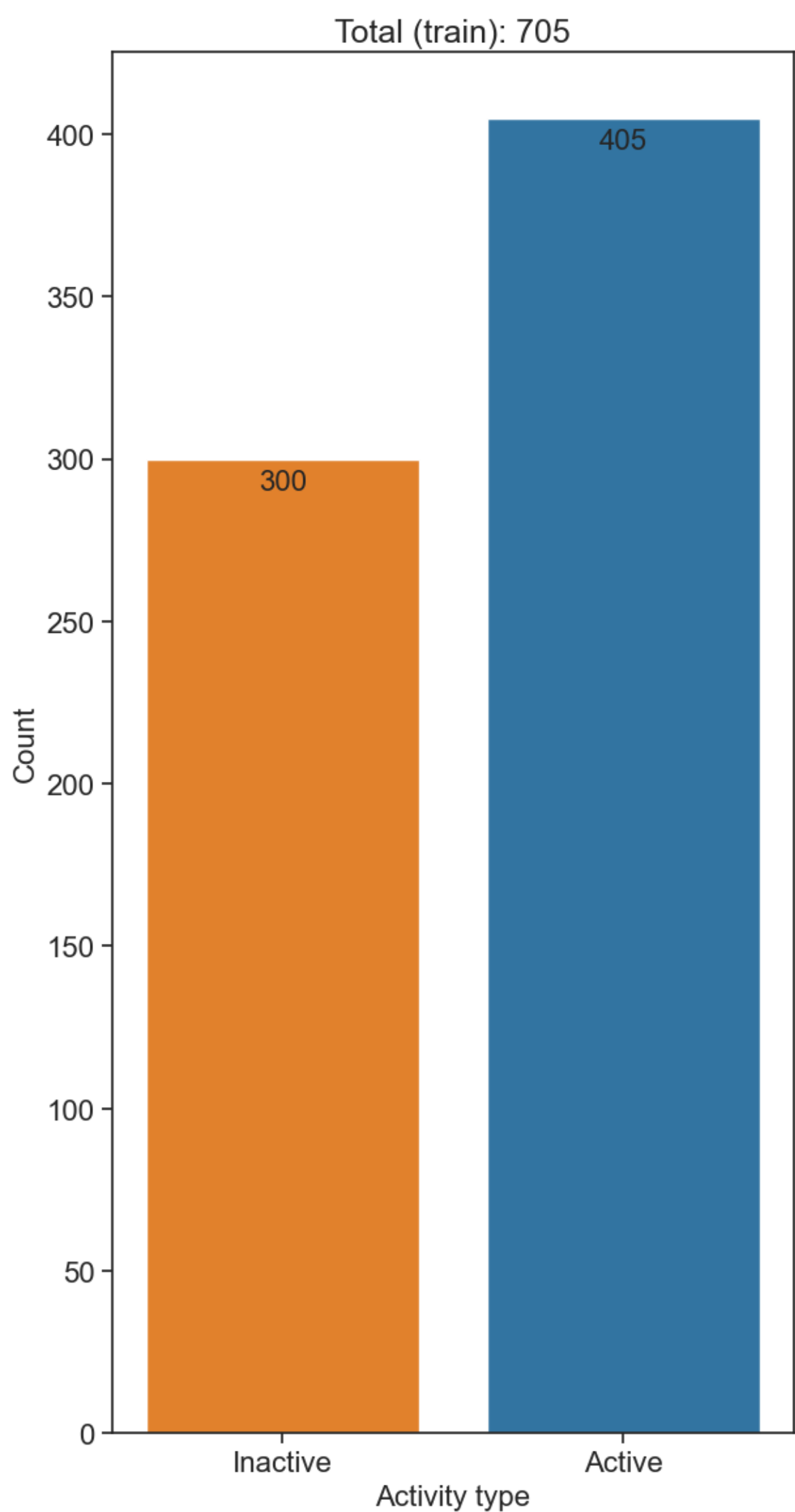
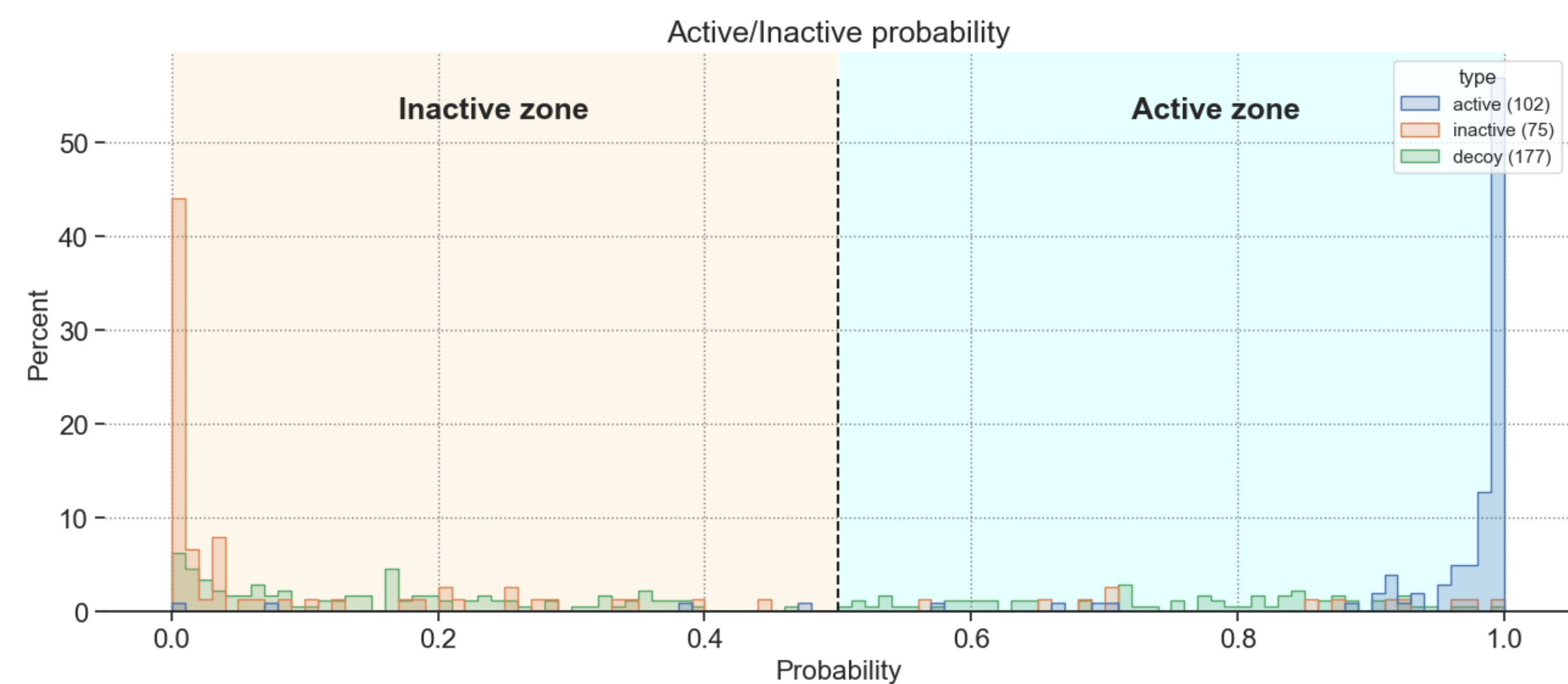
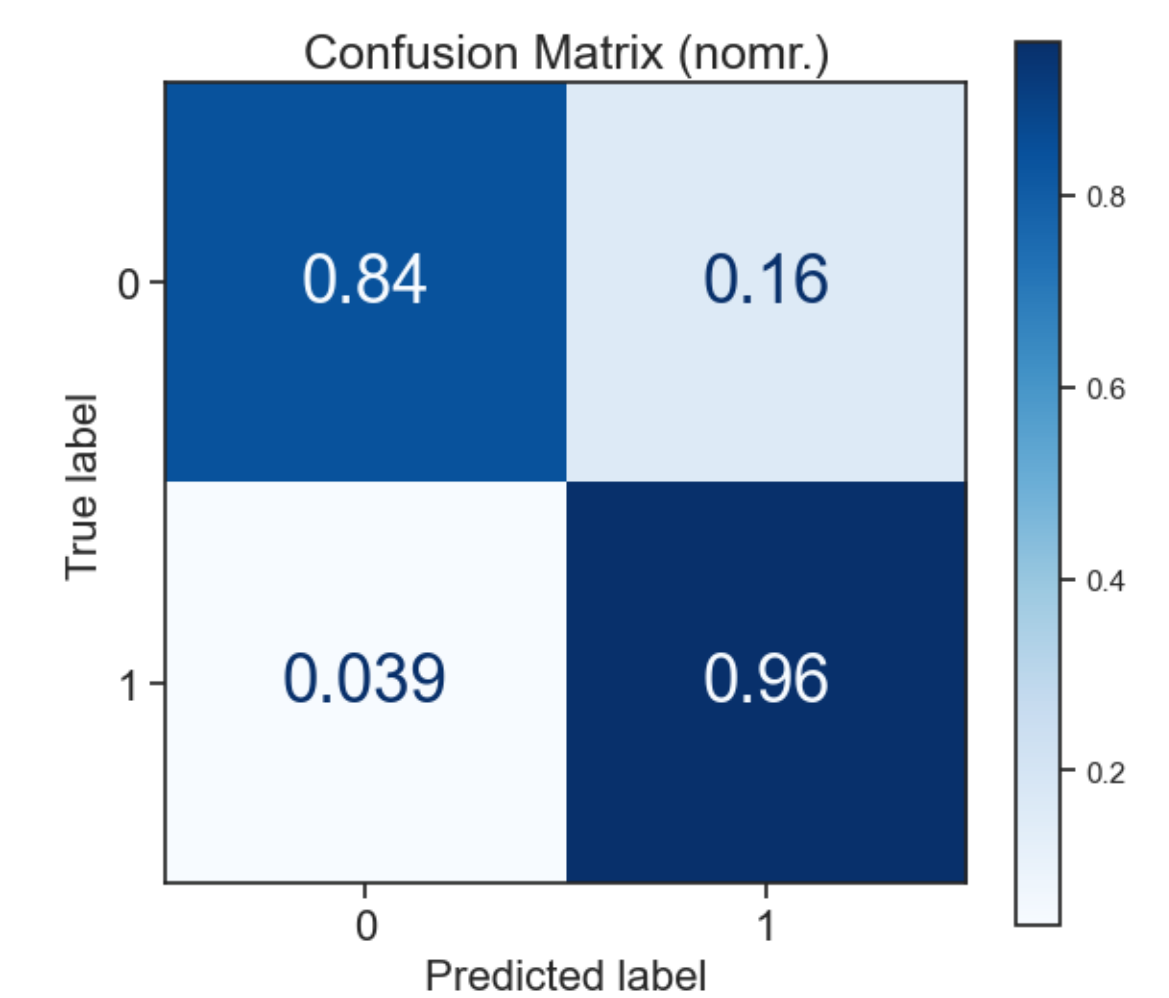
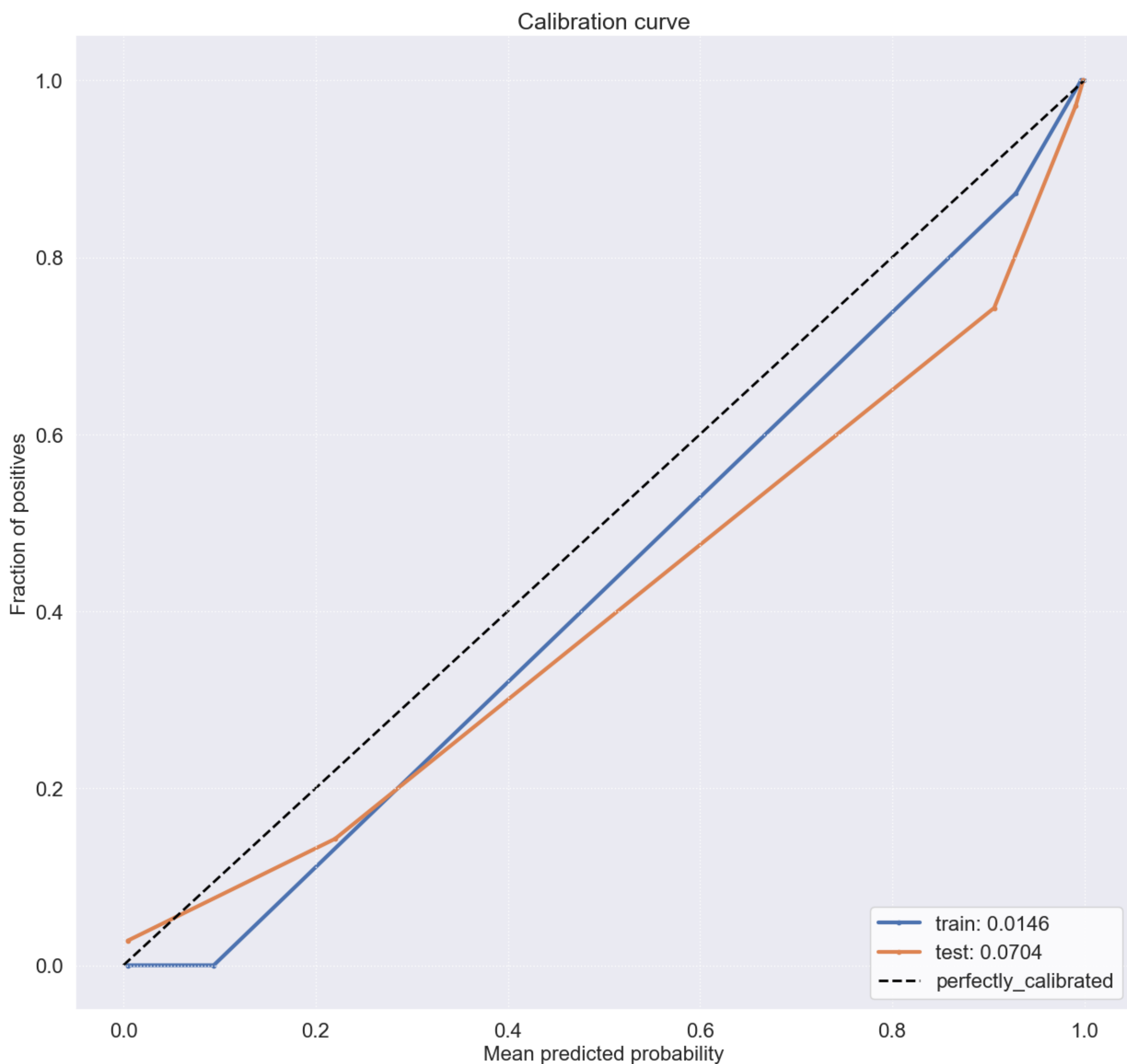
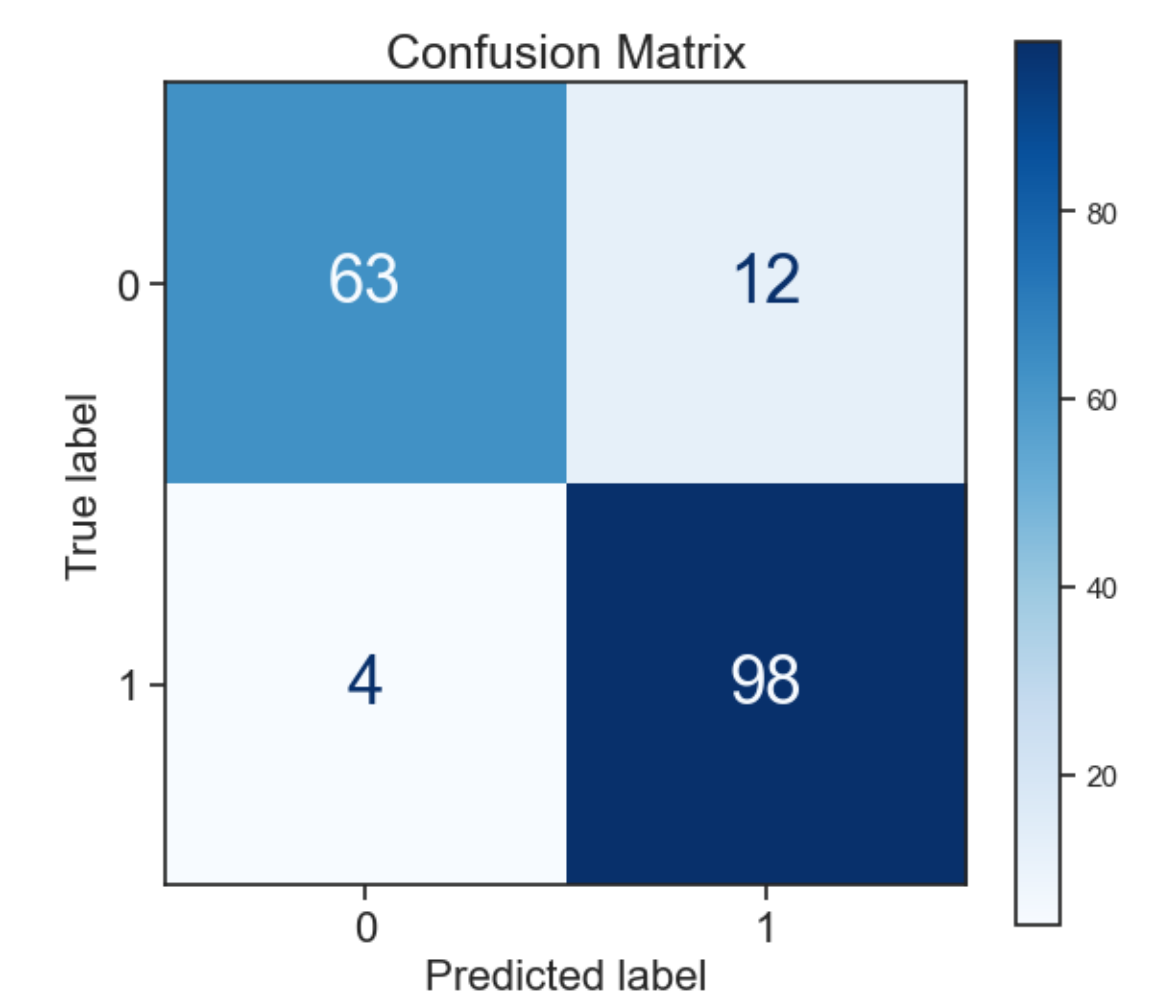


Protein: P43681 - metric: balanced\_accuracy



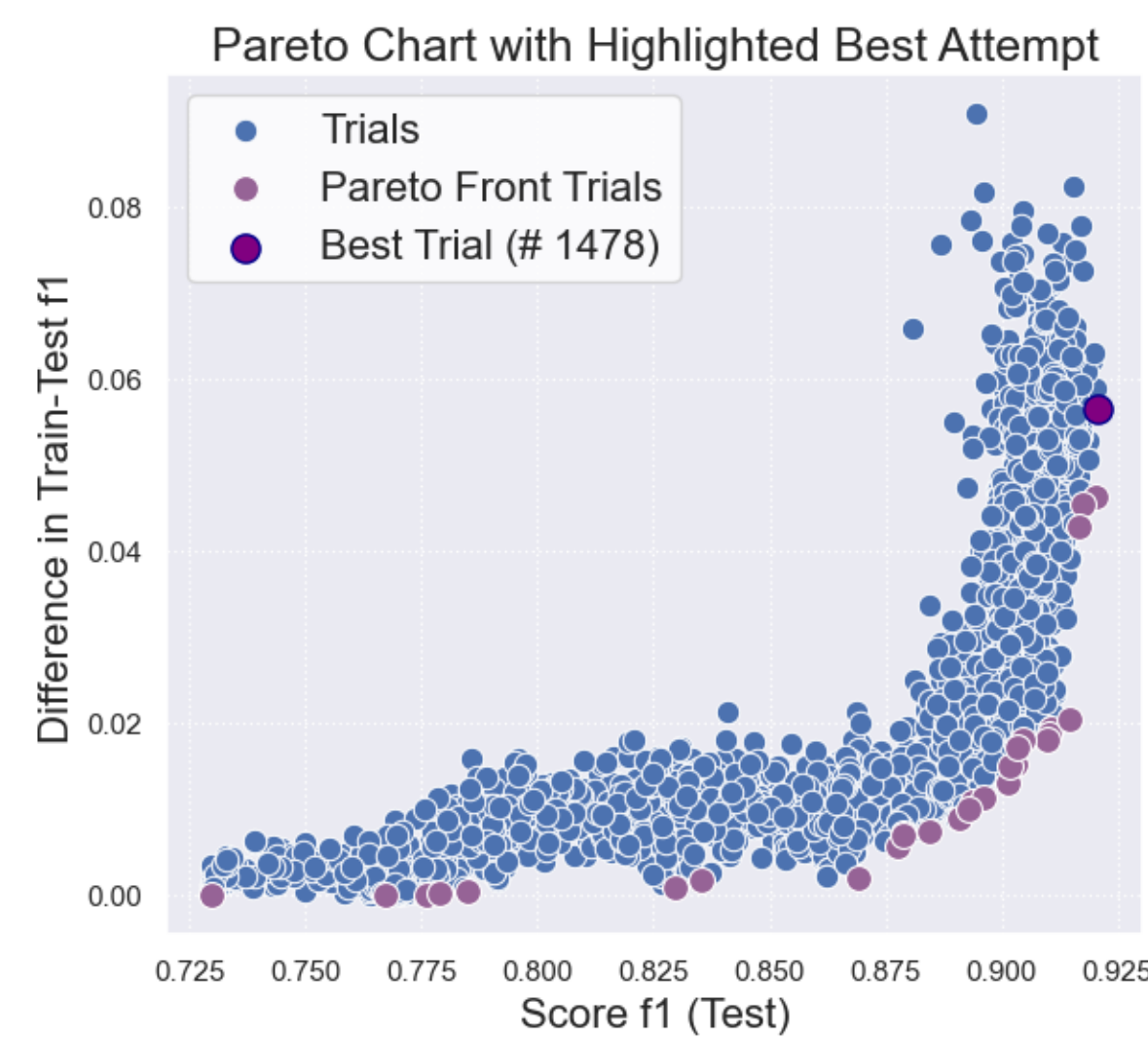
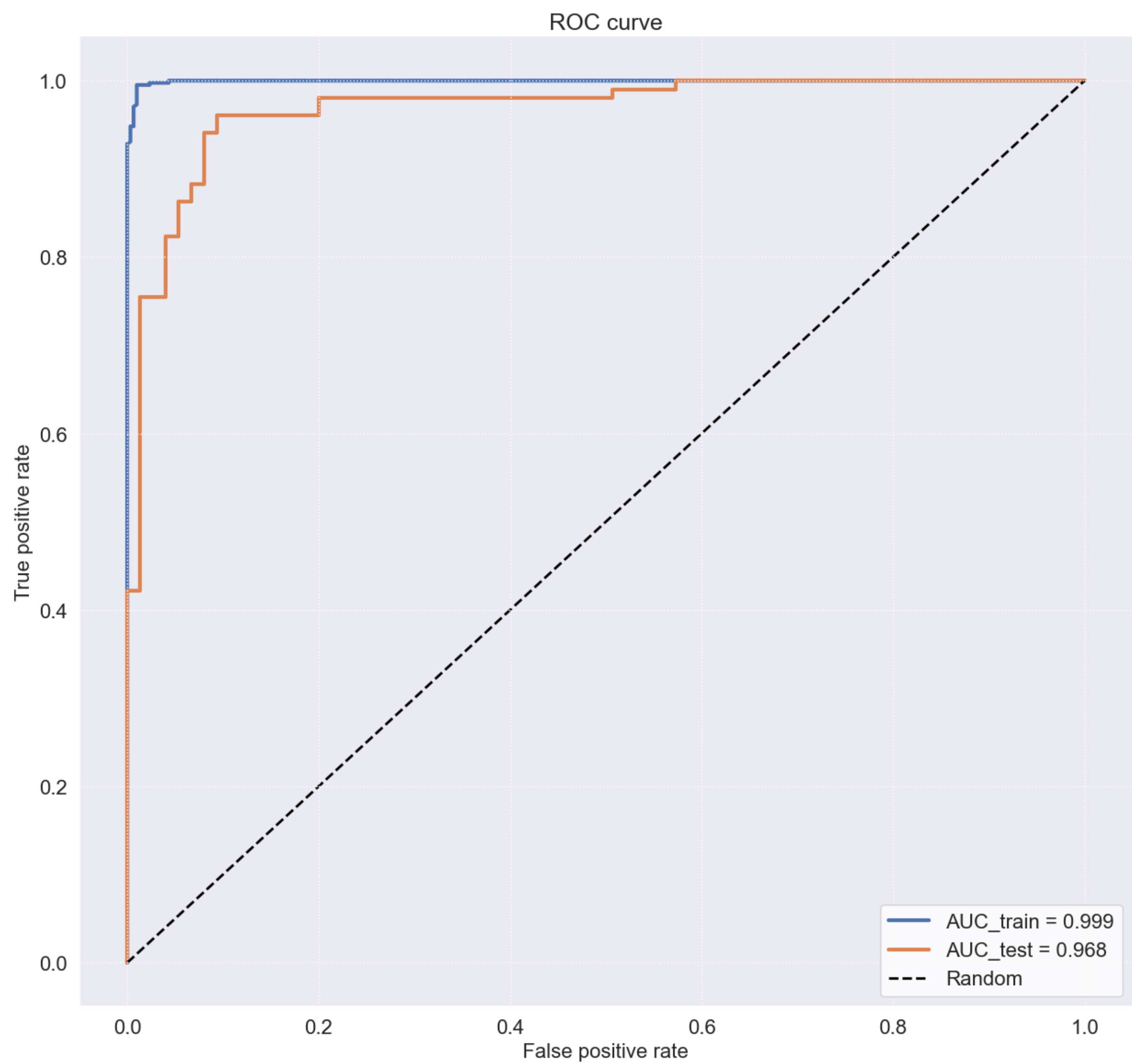
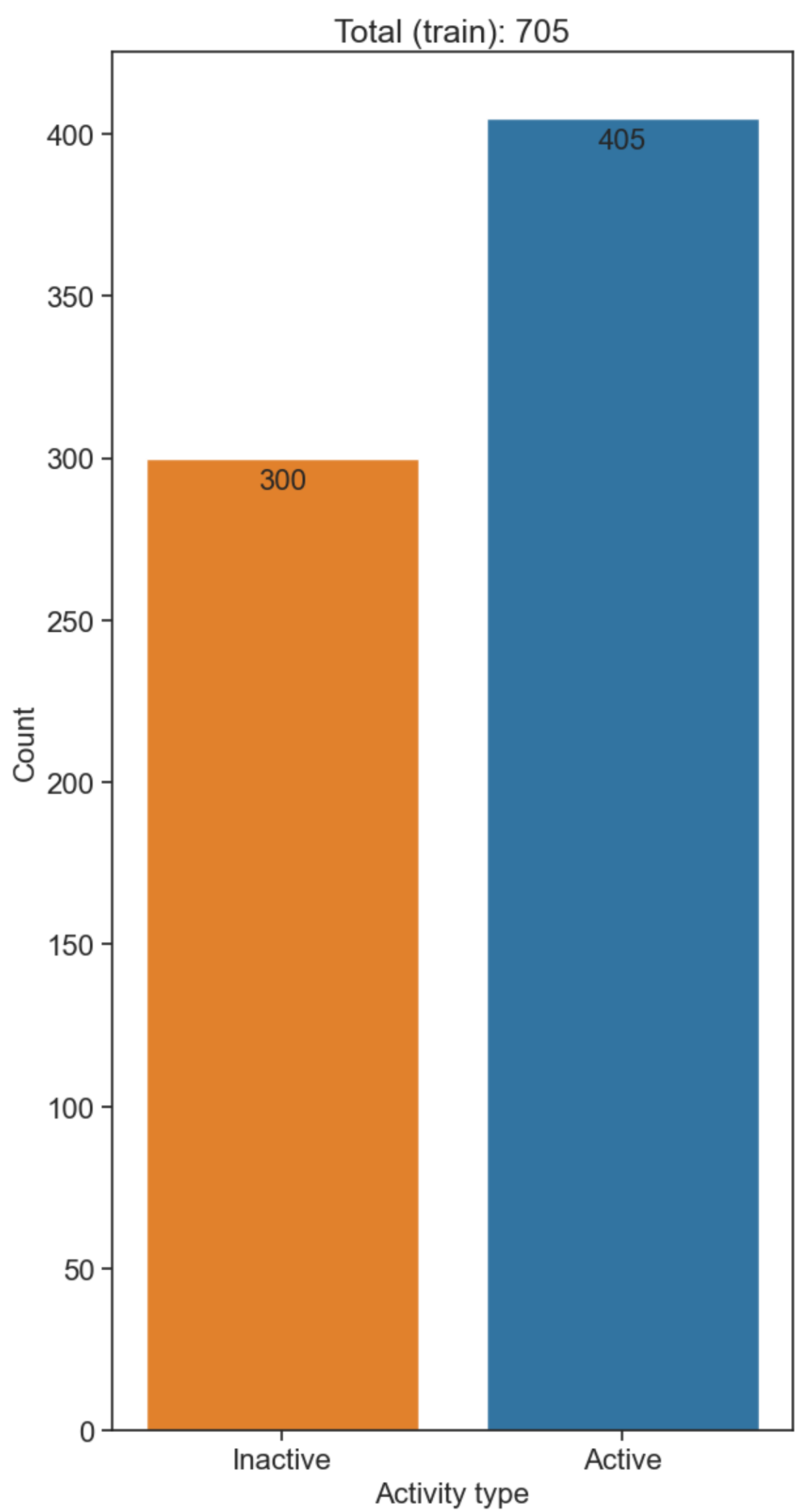
XGBoost Parameters	Value
alpha	4.3999
colsample_bytree	0.8627
gamma	0.3092
lambda	1.8821
learning_rate	0.0532
max_depth	10.0
min_child_weight	3.0
n_estimators	815.0
reg_alpha	0.0351
reg_lambda	0.0772
scale_pos_weight	6.5148
subsample	0.9051



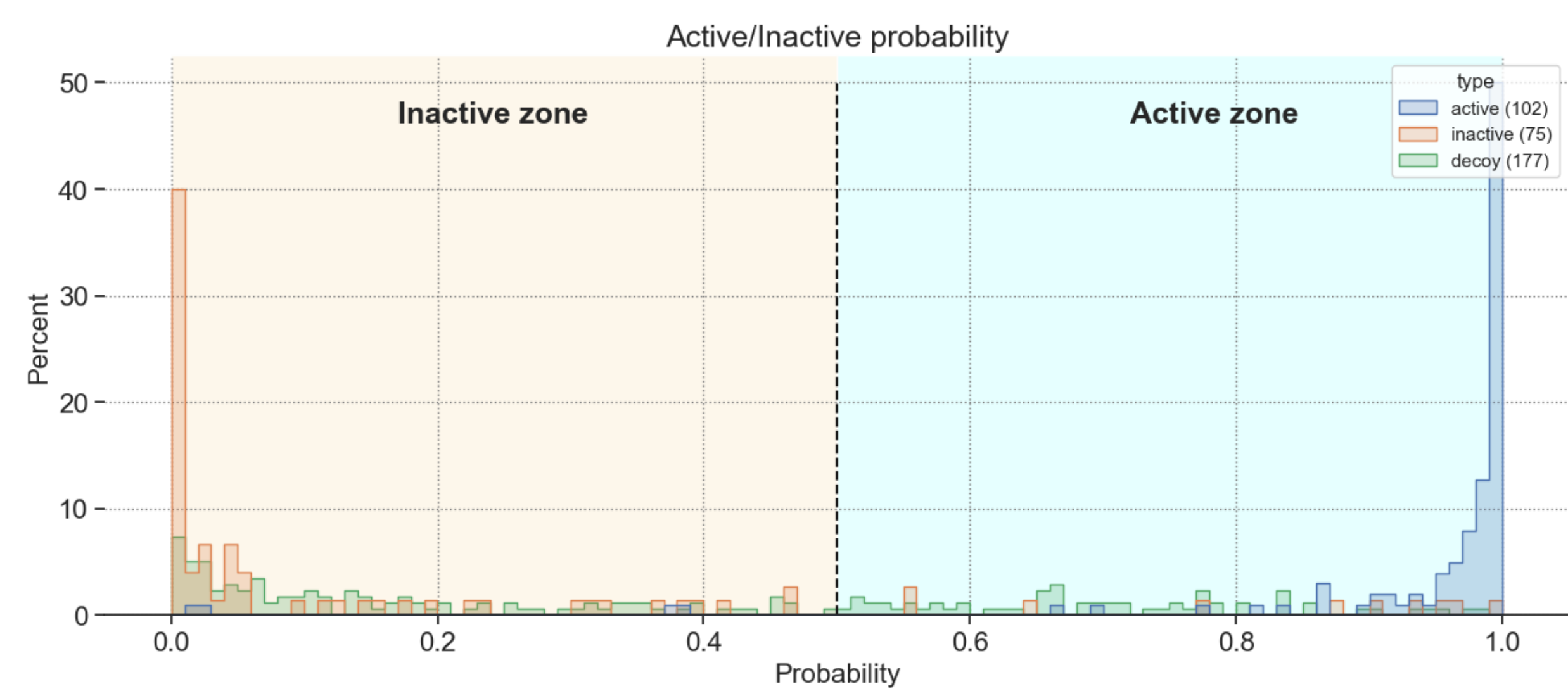
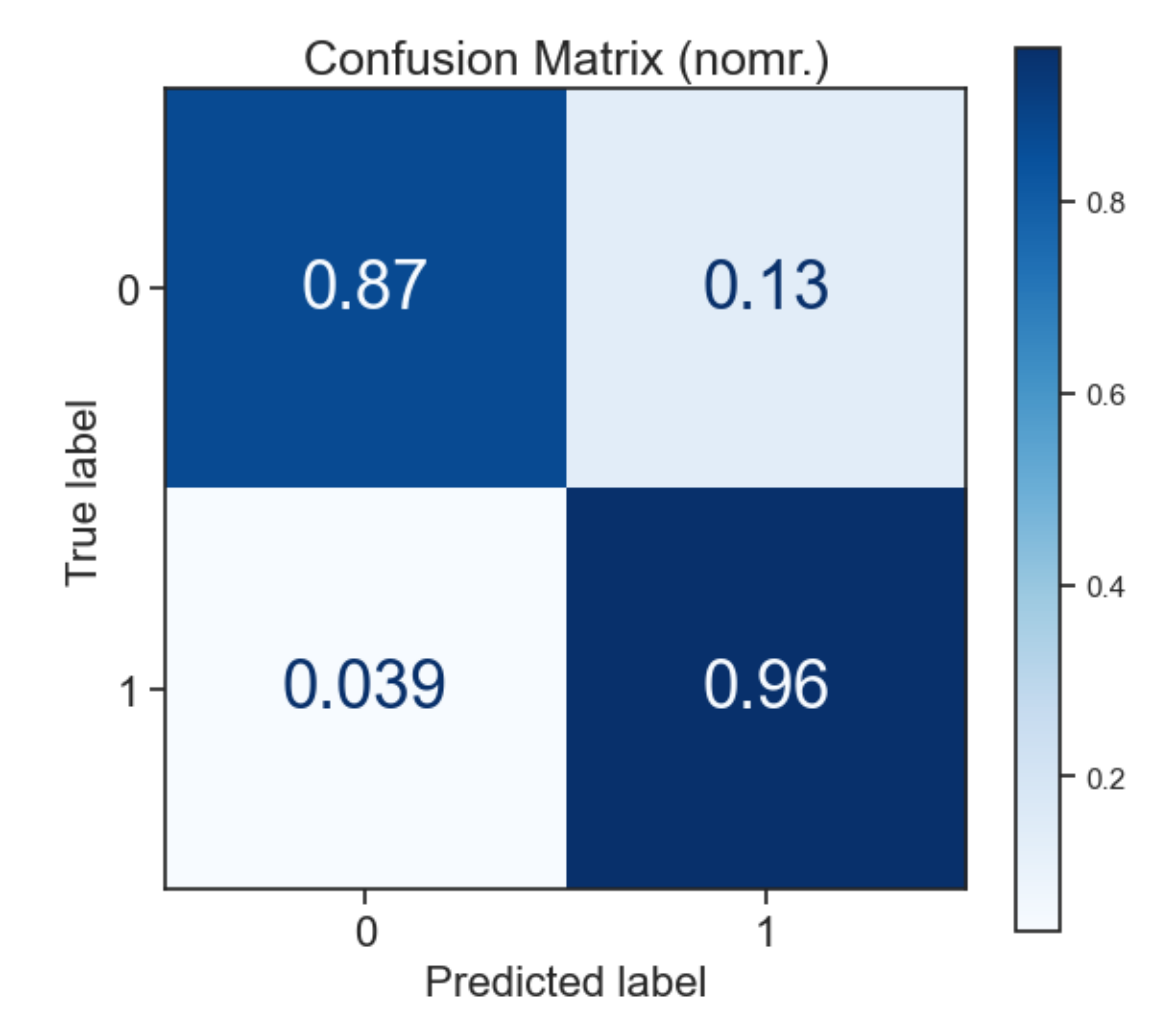
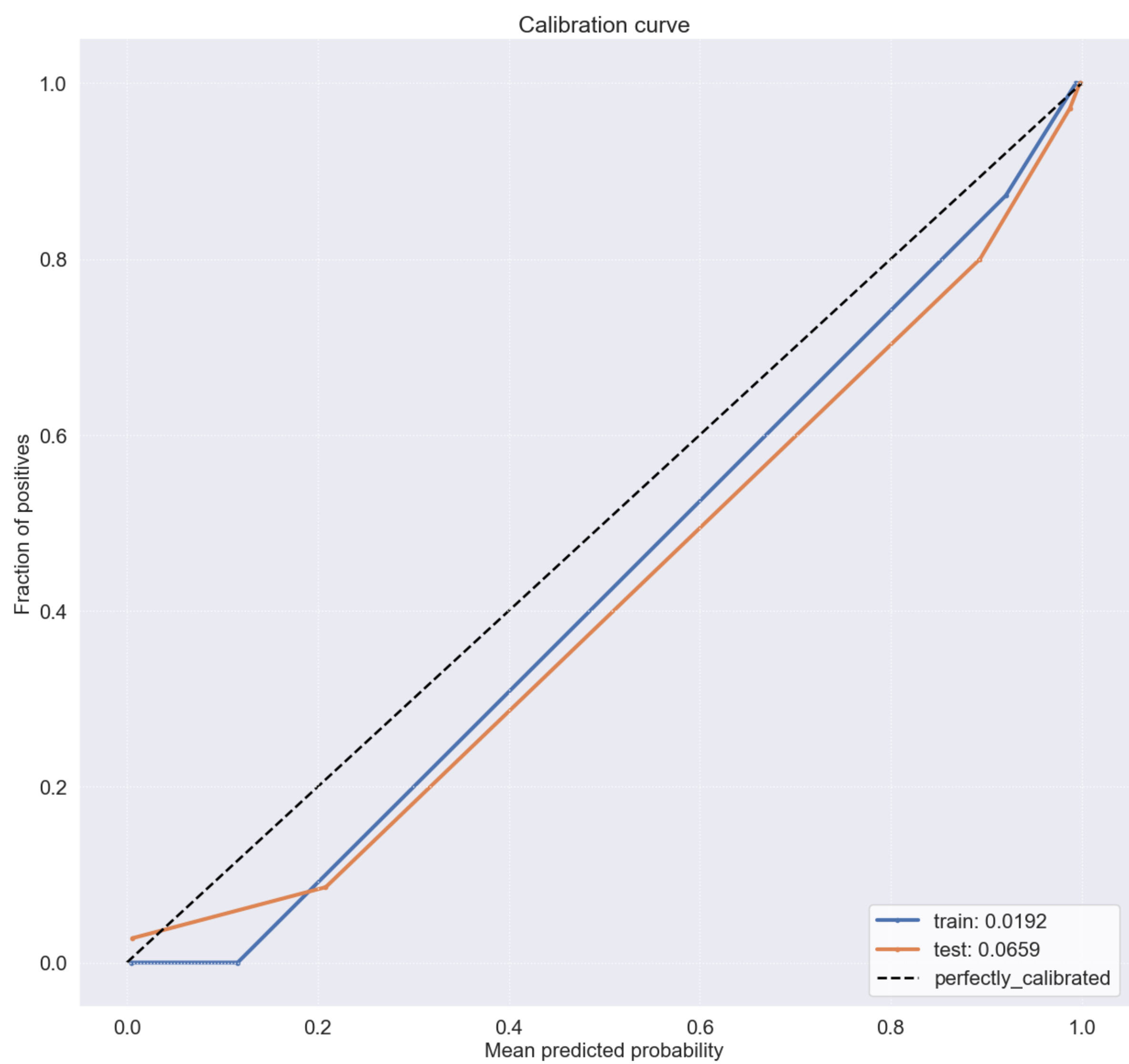
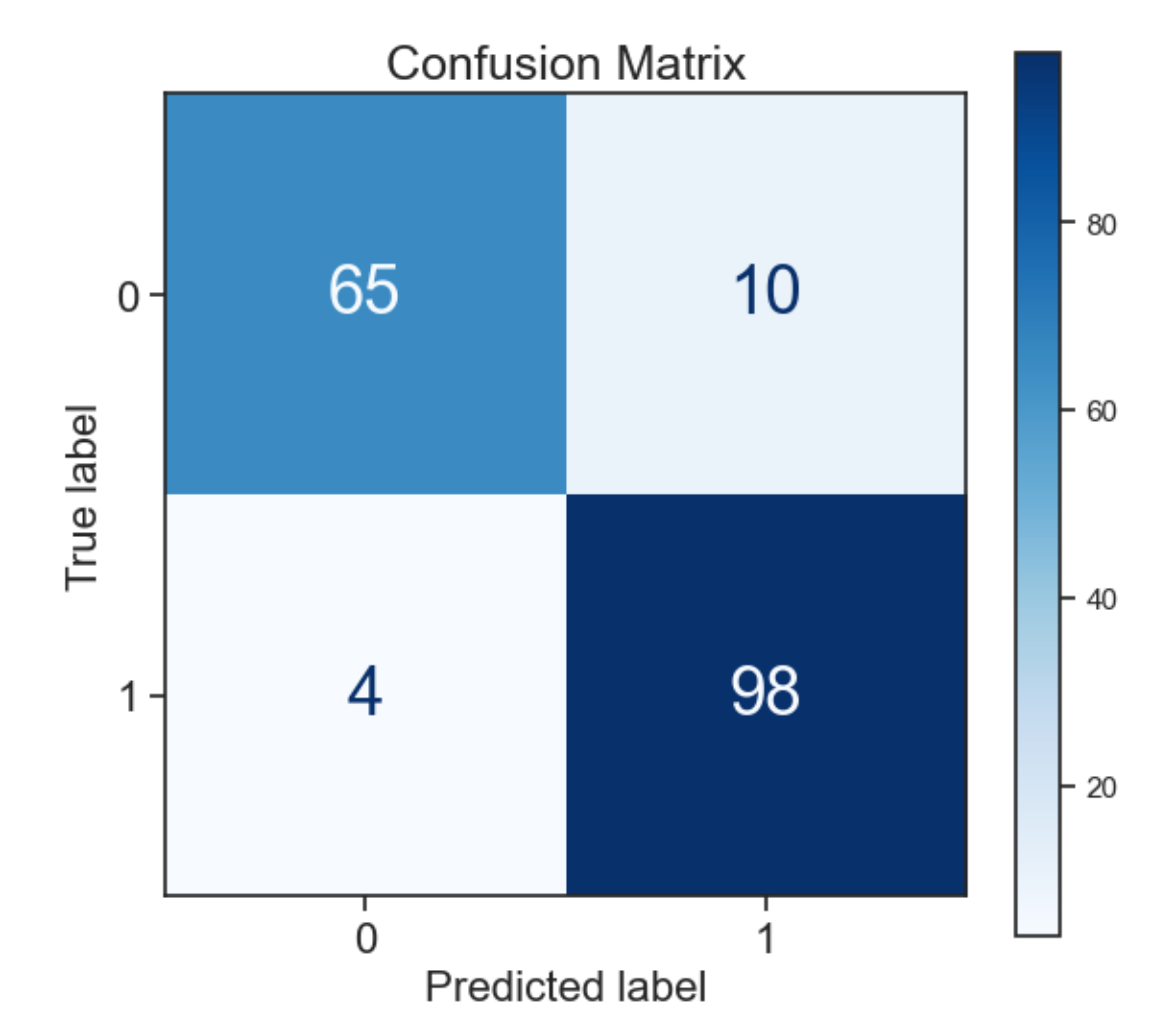
Metric	Train	Test
AUC	0.9998	0.9684
accuracy	0.9787	0.9096
balanced accuracy	0.975	0.9004
recall_(sens)	1.0	0.9608
specificity	0.95	0.84
precision	0.9643	0.8909
f1_score	0.9786	0.9088



Protein: P43681 - metric: f1



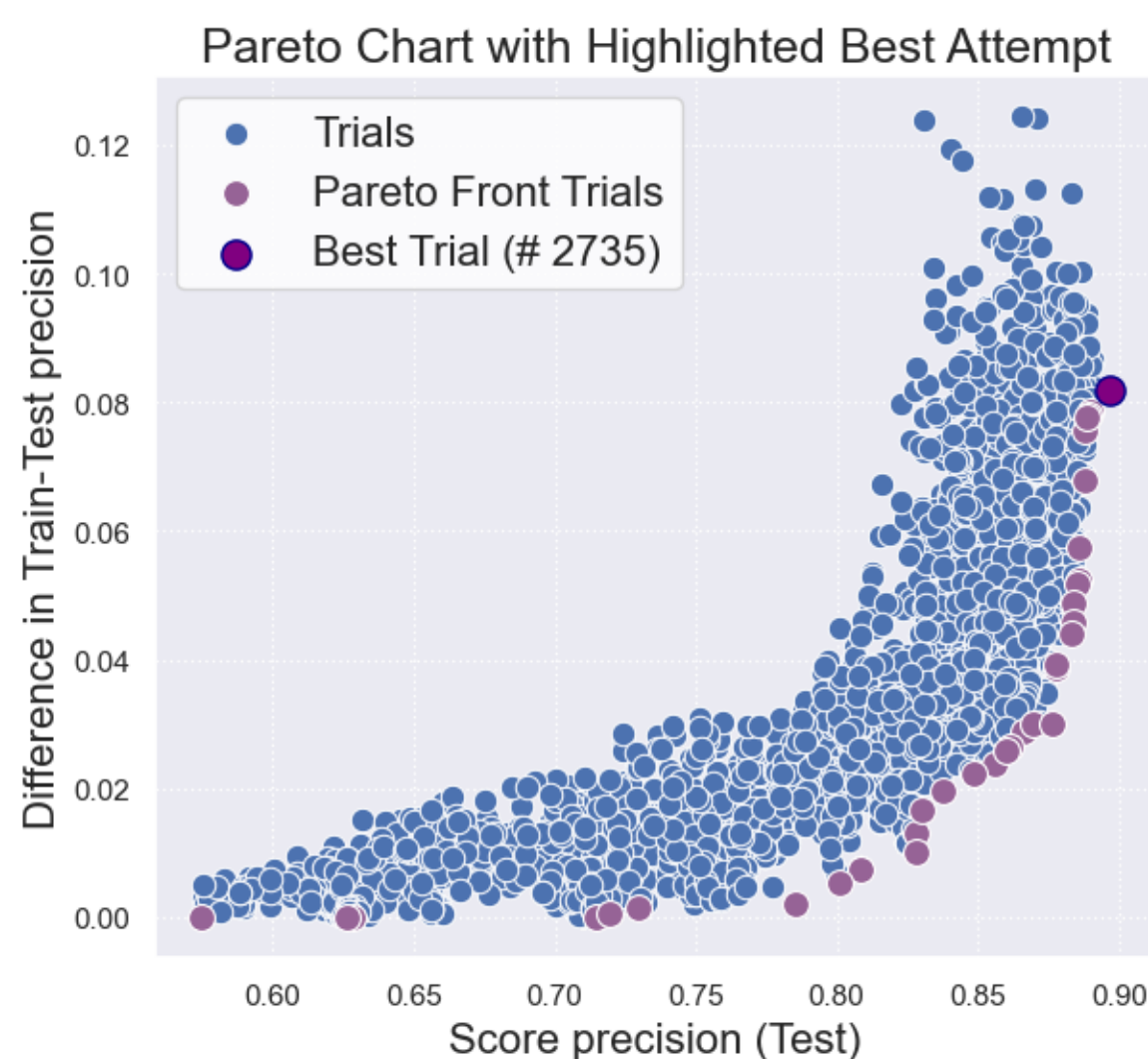
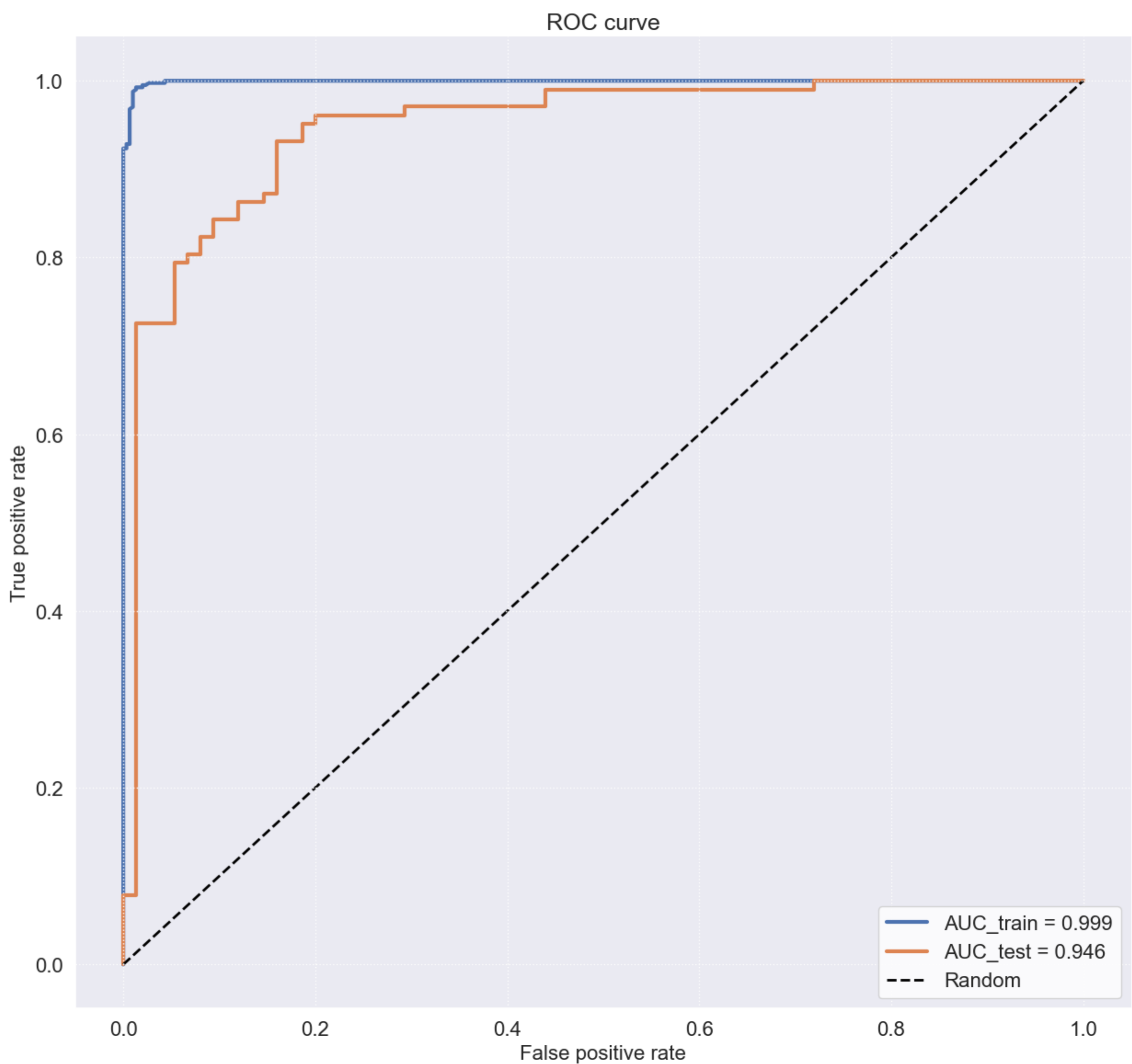
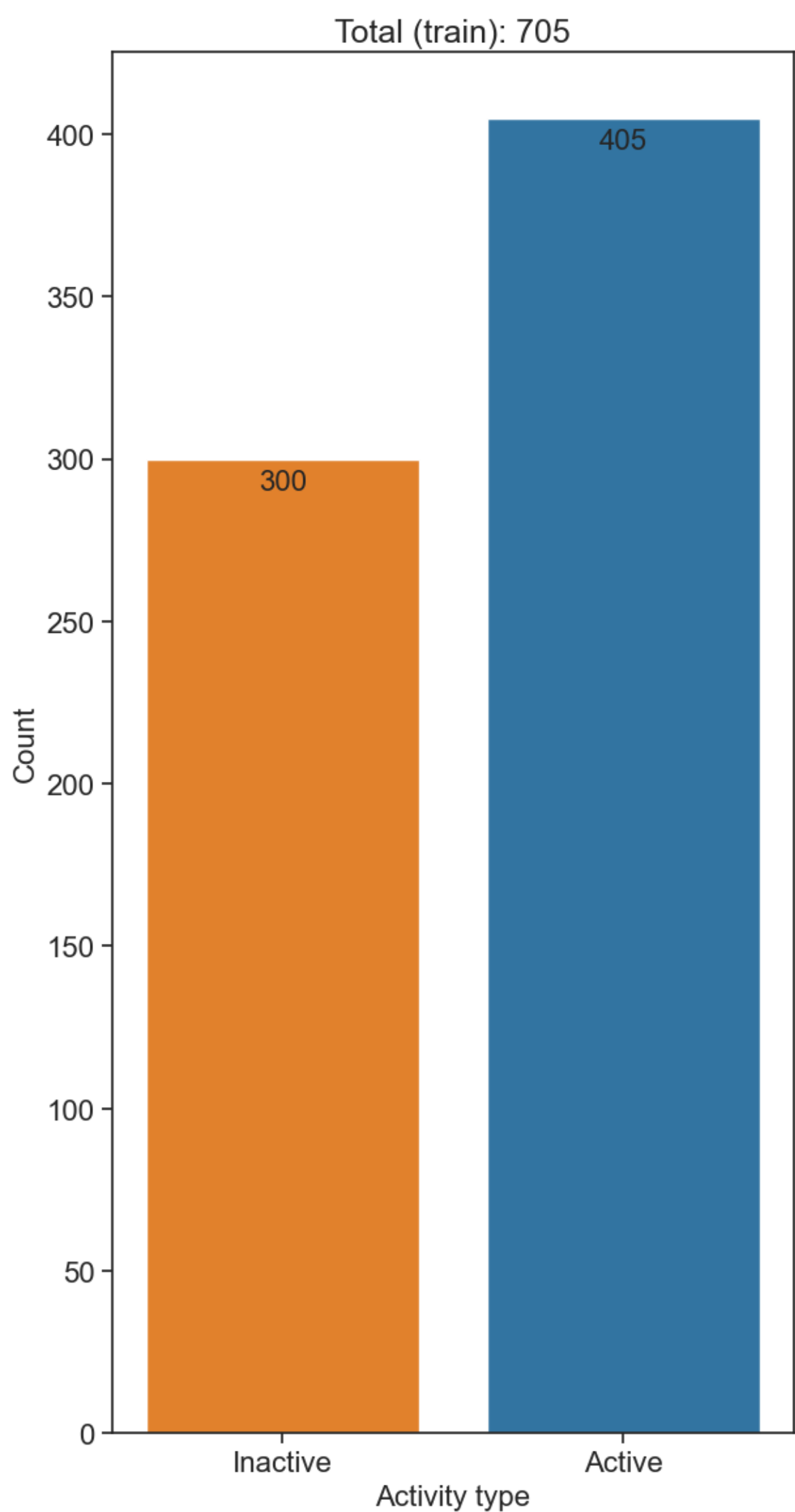
XGBoost Parameters	Value	
alpha	2.5844	
colsample_bytree	0.8194	
gamma	0.329	
lambda	4.2764	
learning_rate	0.1369	
max_depth	7.0	
min_child_weight	3.0	
n_estimators	759.0	
reg_alpha	0.8019	
reg_lambda	0.0172	
scale_pos_weight	4.3846	
subsample	0.8016	



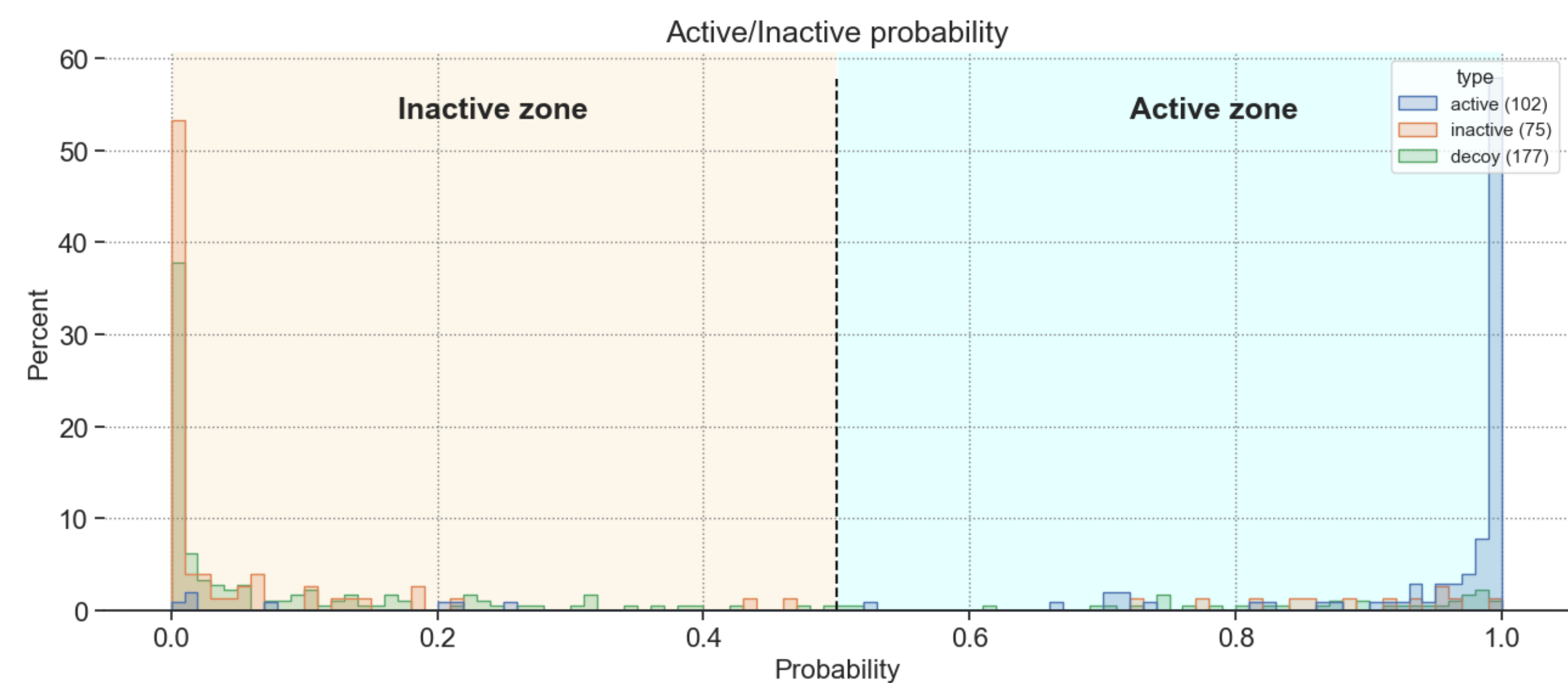
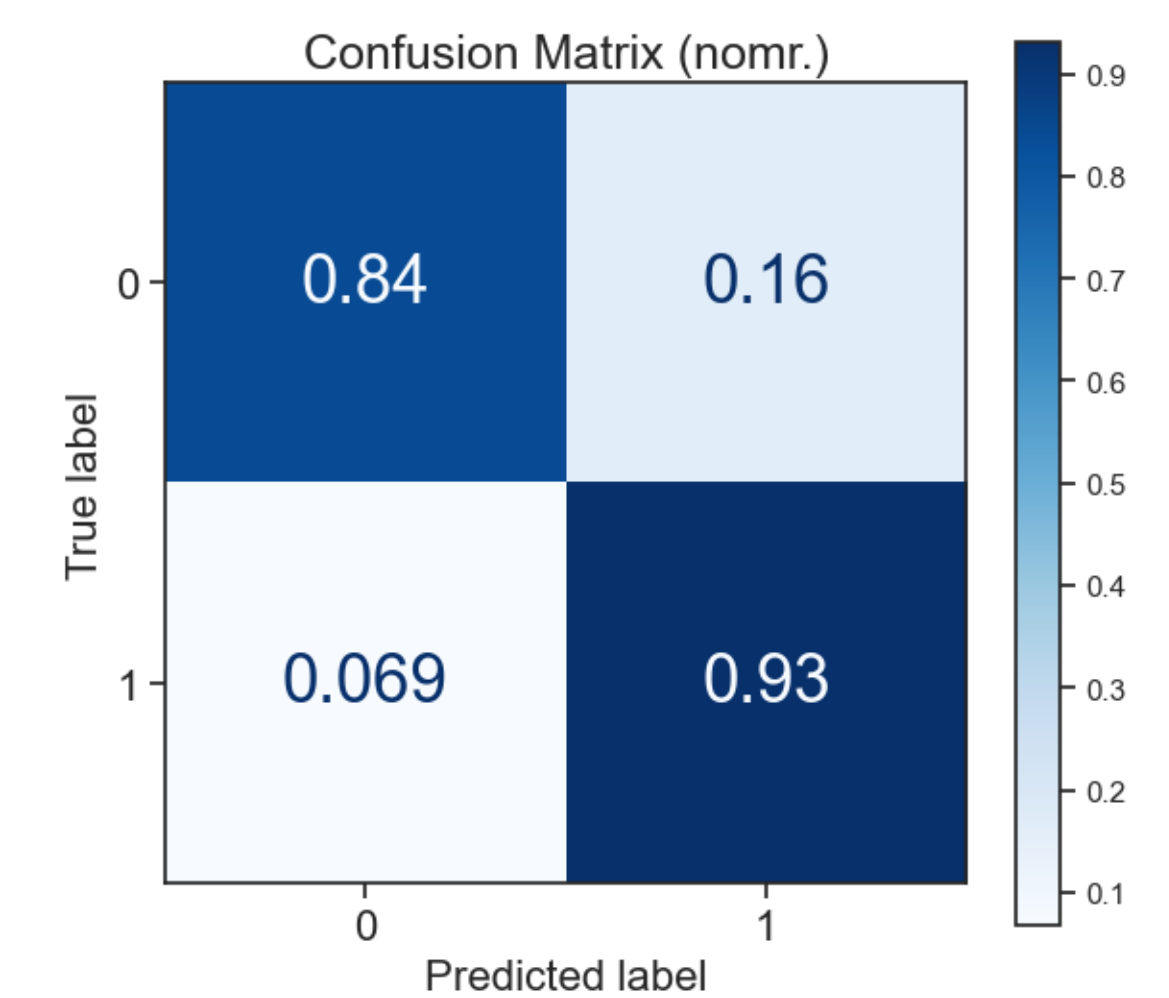
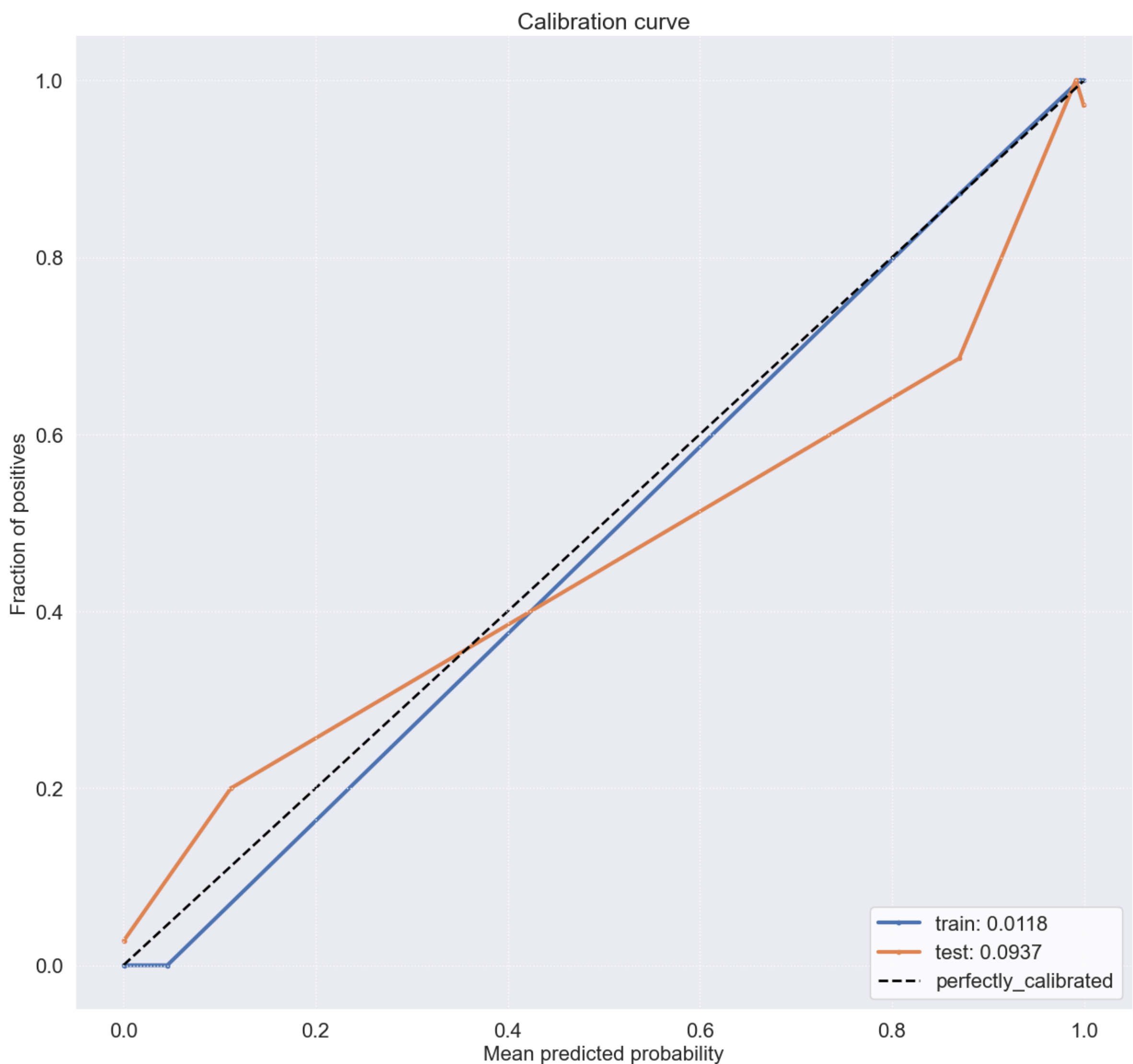
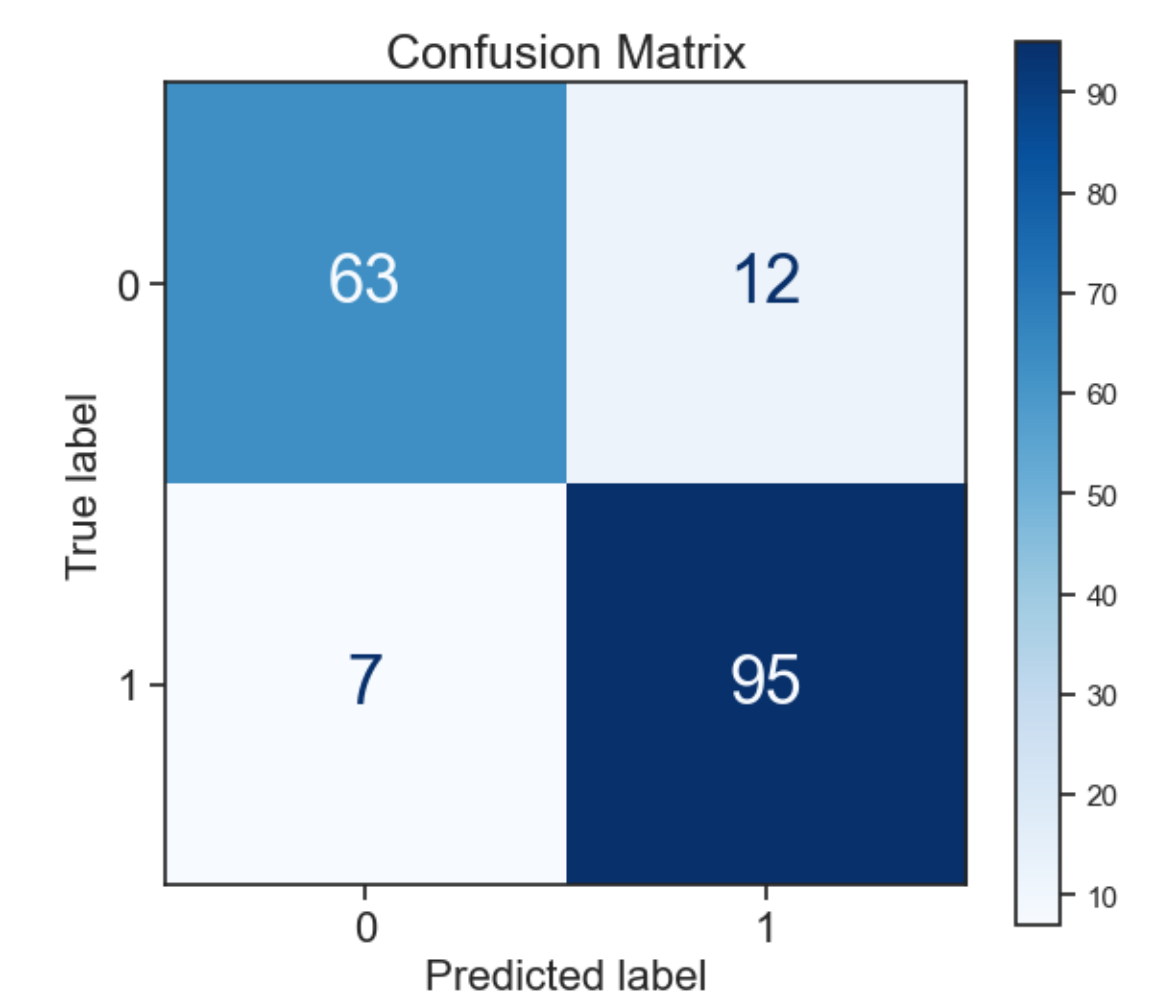
Metric	Train	Test
AUC	0.9994	0.9684
accuracy	0.9745	0.9209
balanced accuracy	0.97	0.9137
recall_(sens)	1.0	0.9608
specificity	0.94	0.8667
precision	0.9574	0.9074
f1_score	0.9744	0.9204



Protein: P43681 - metric: precision



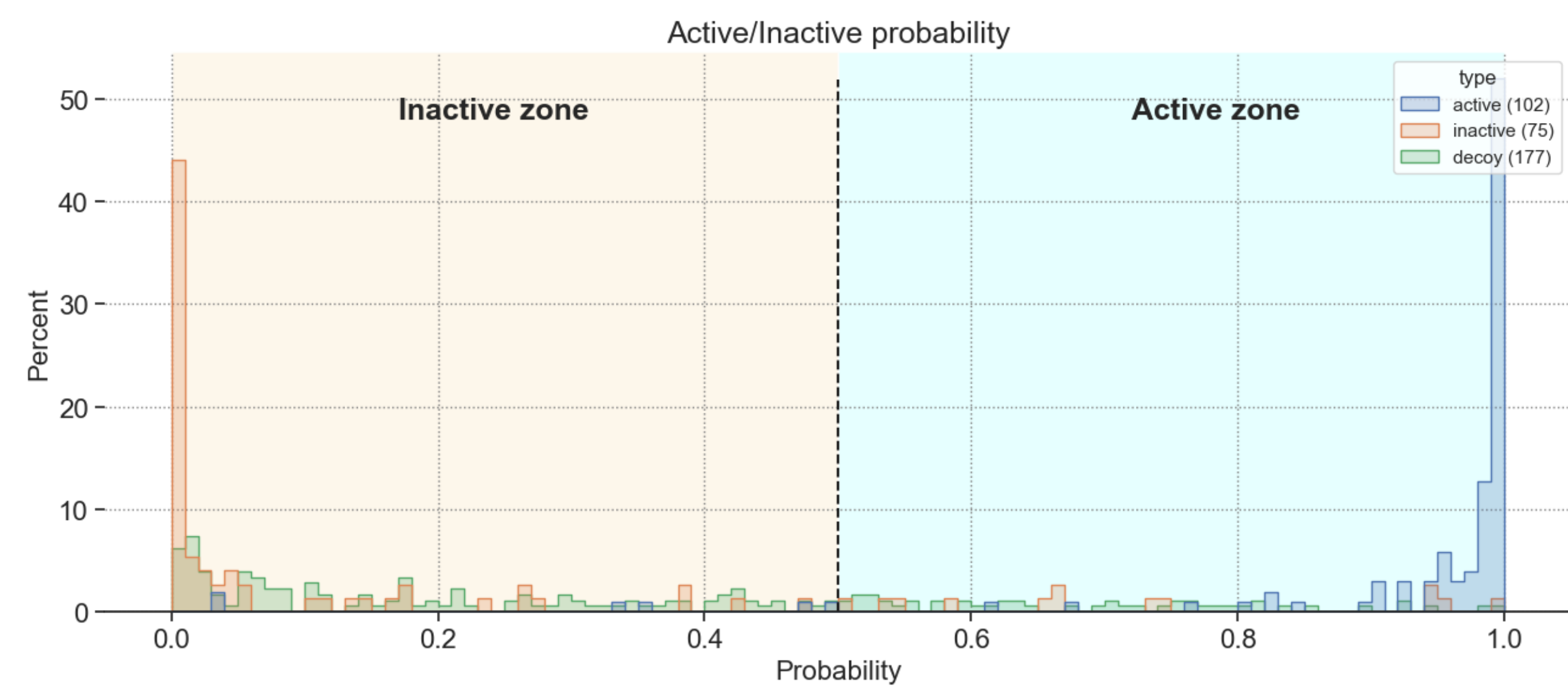
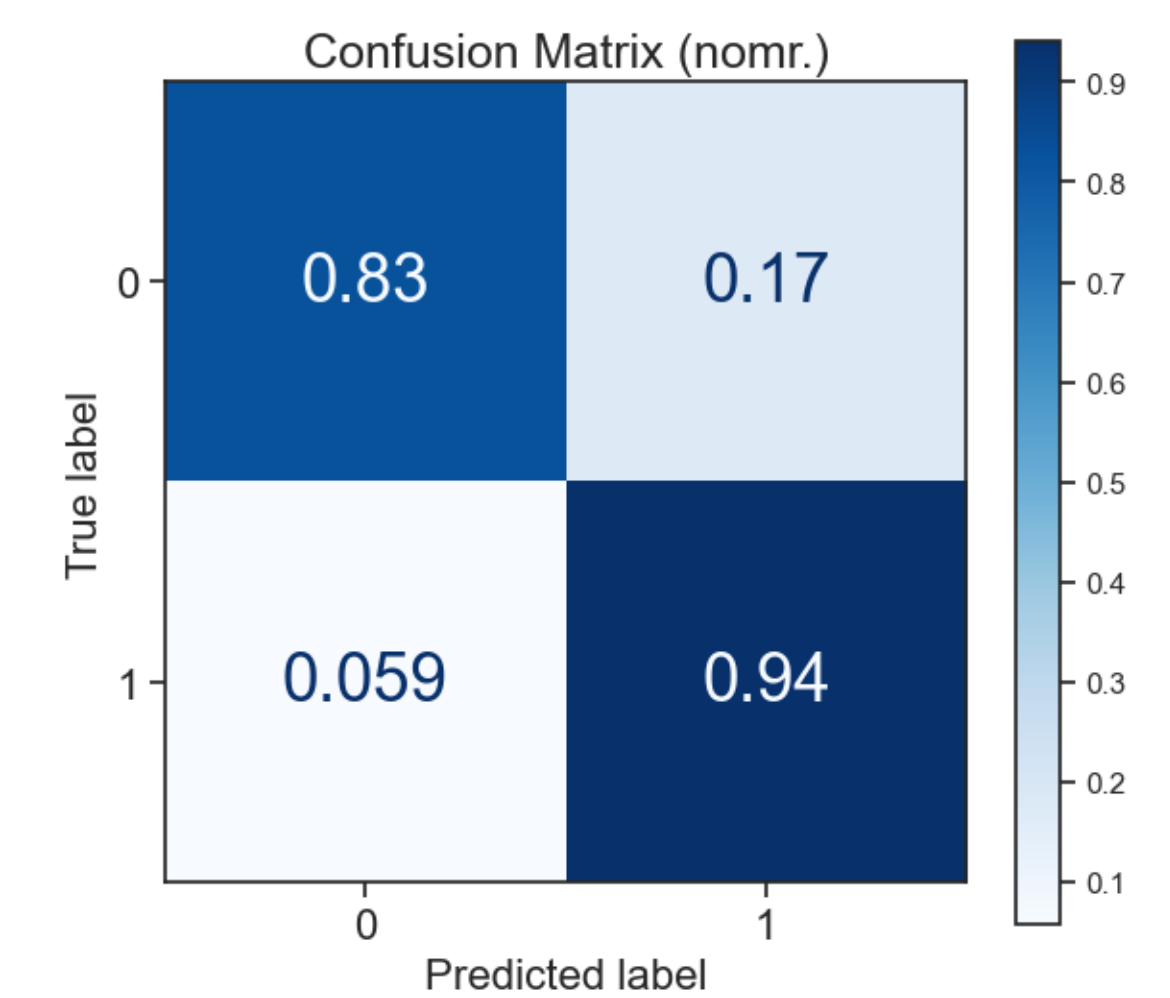
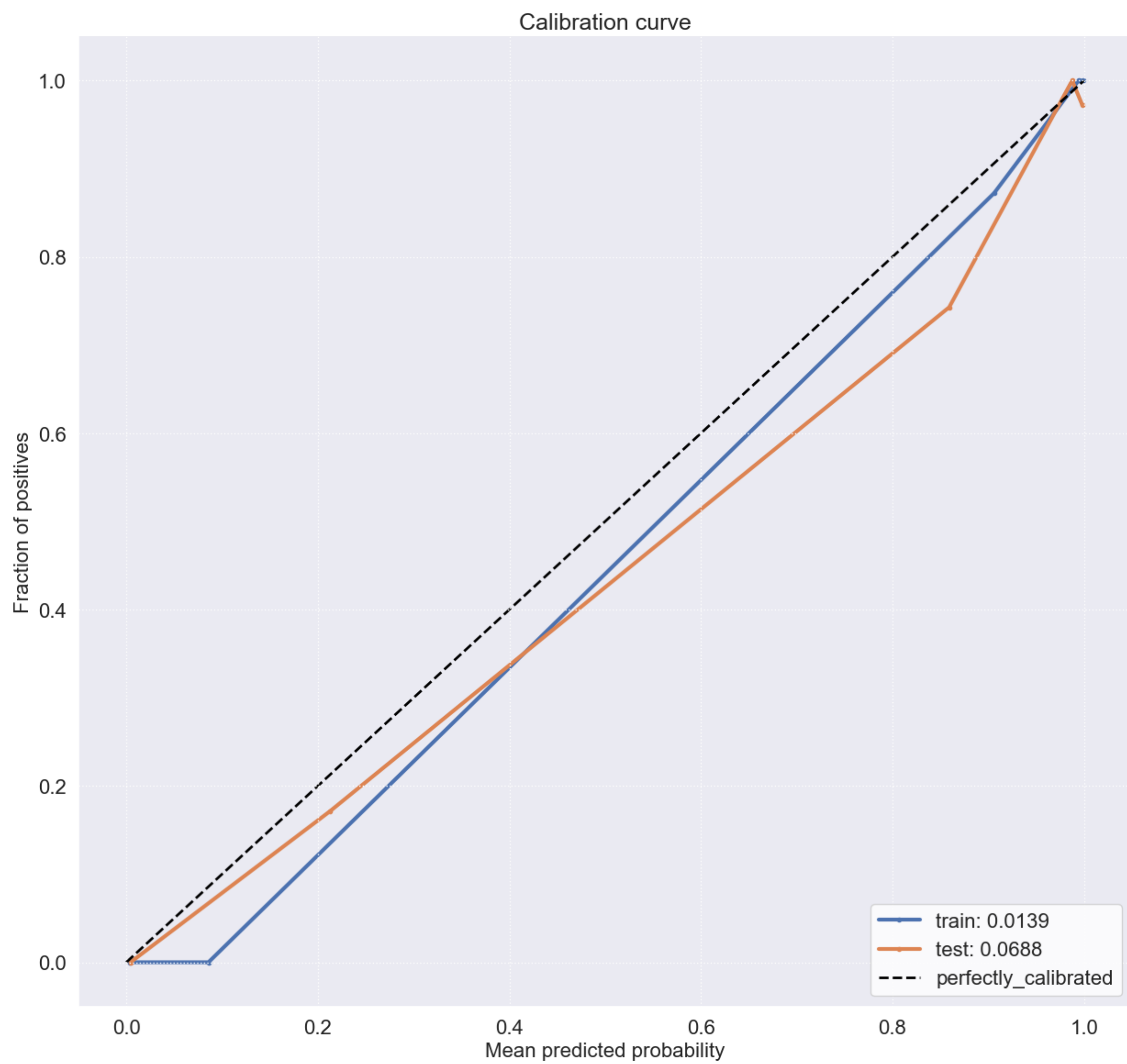
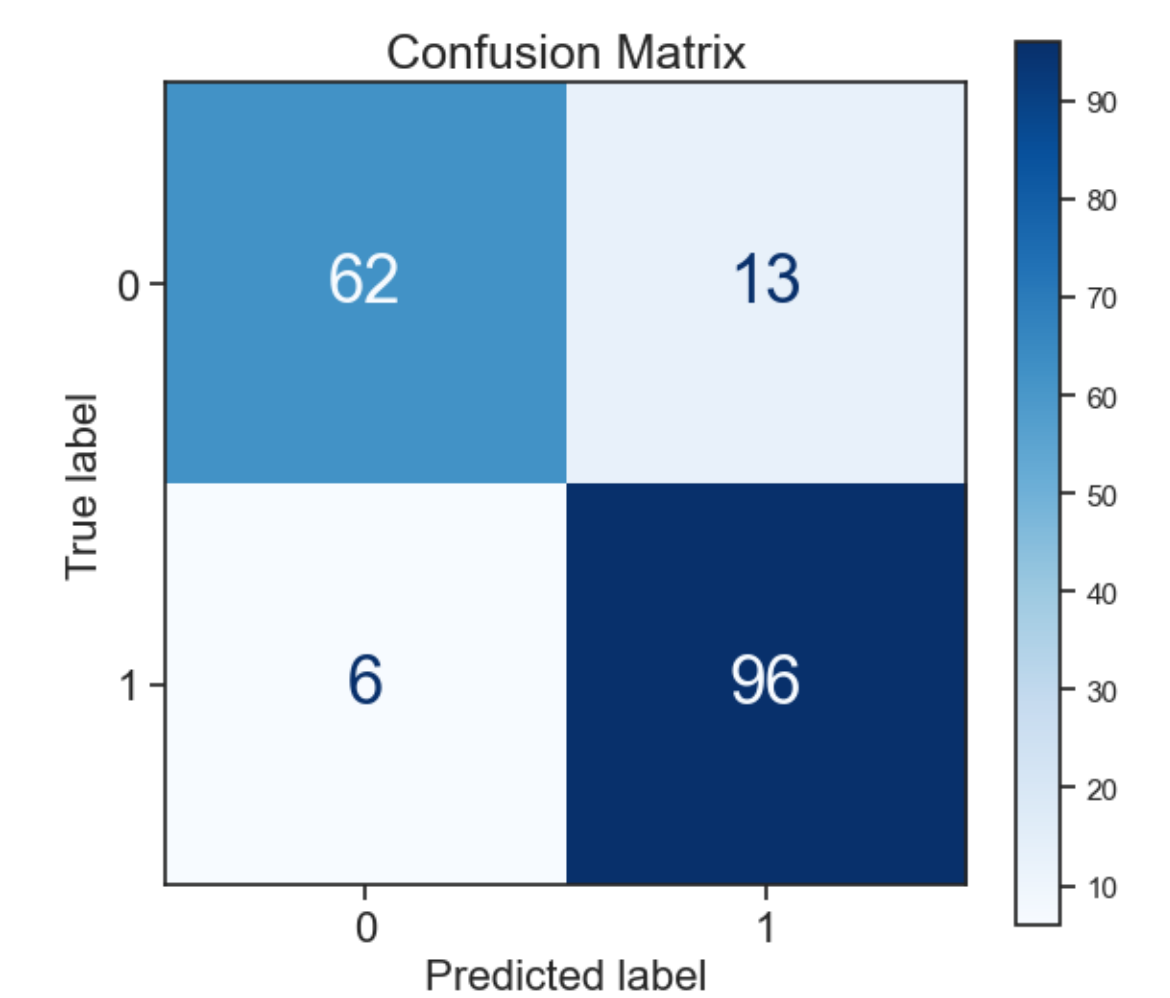
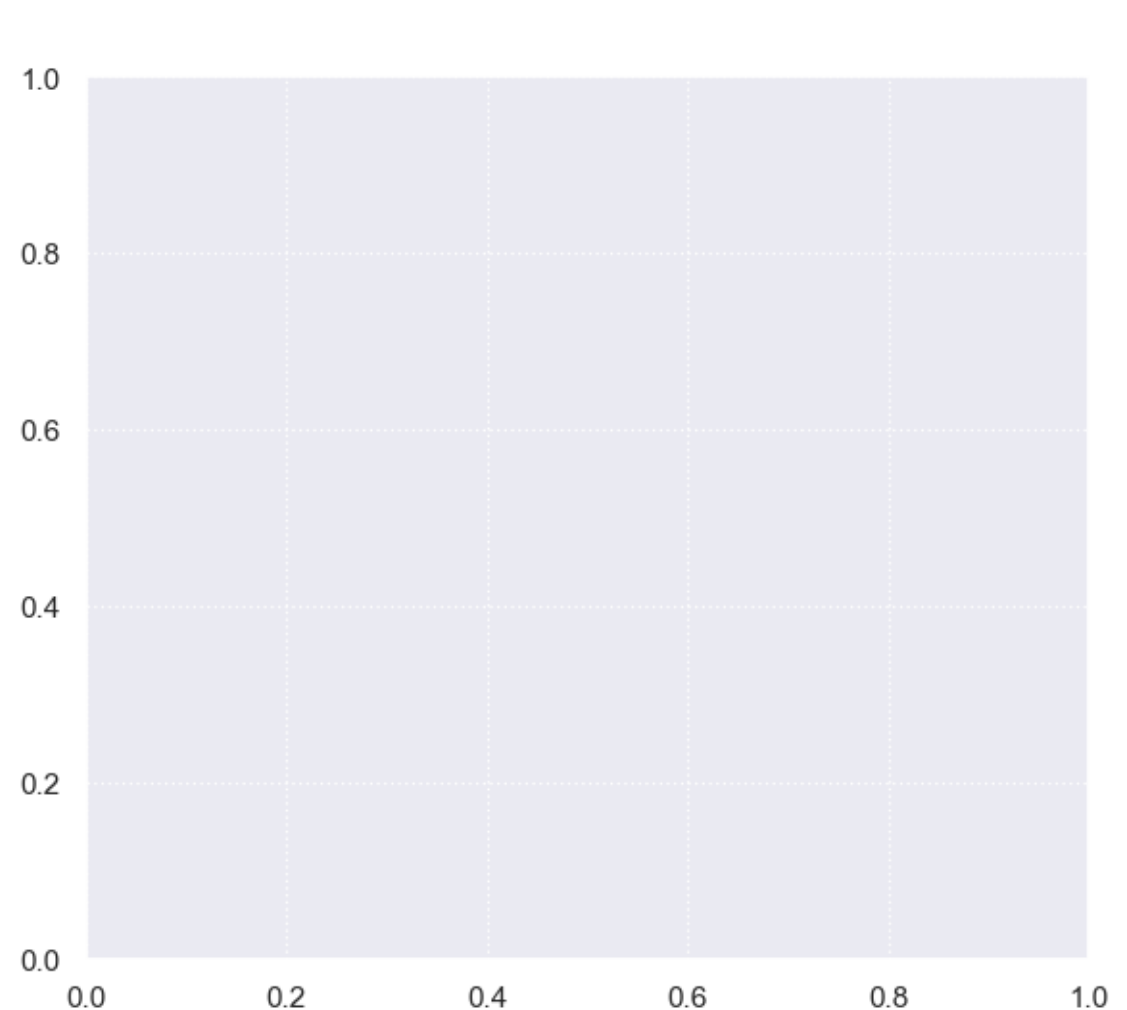
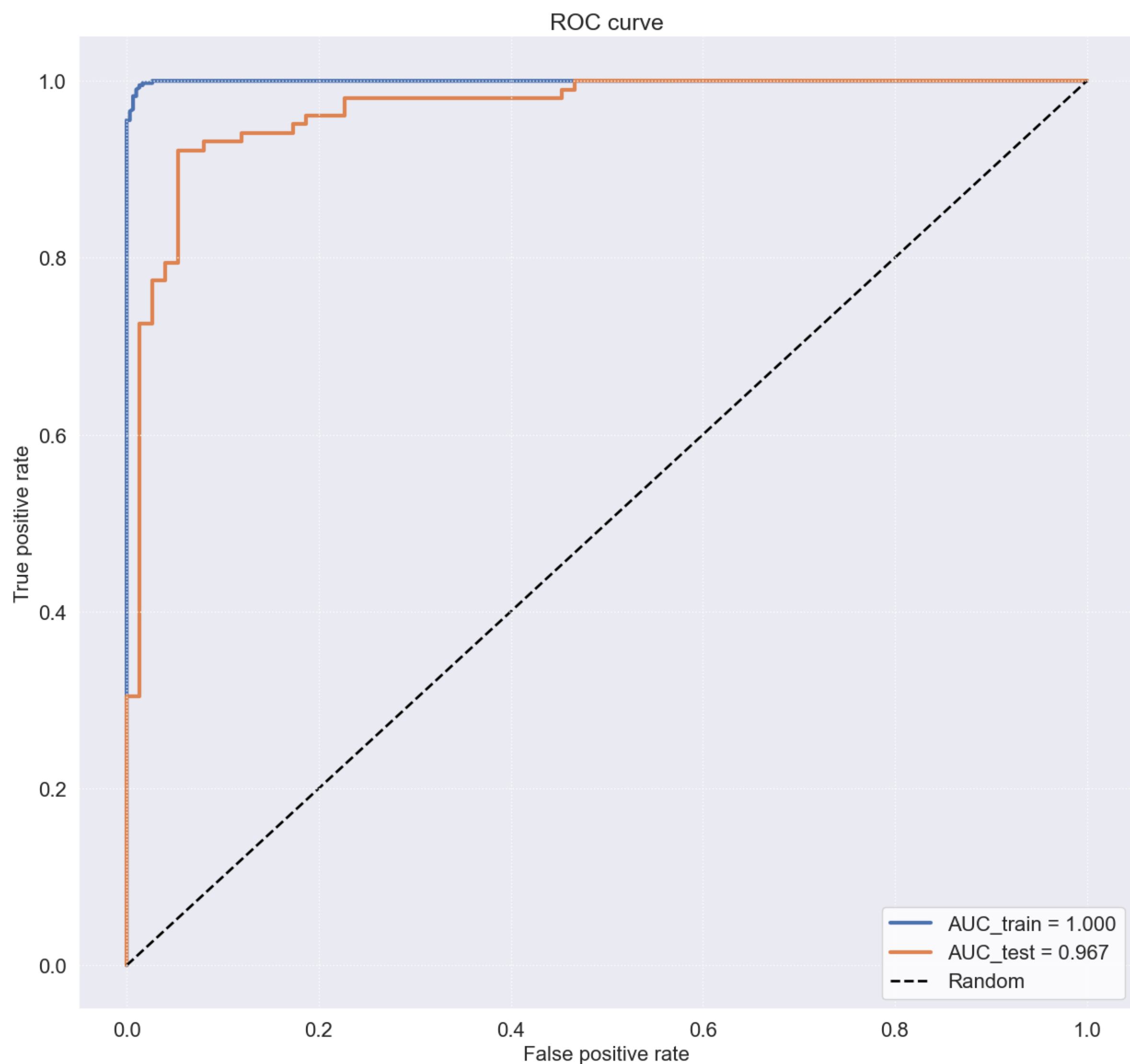
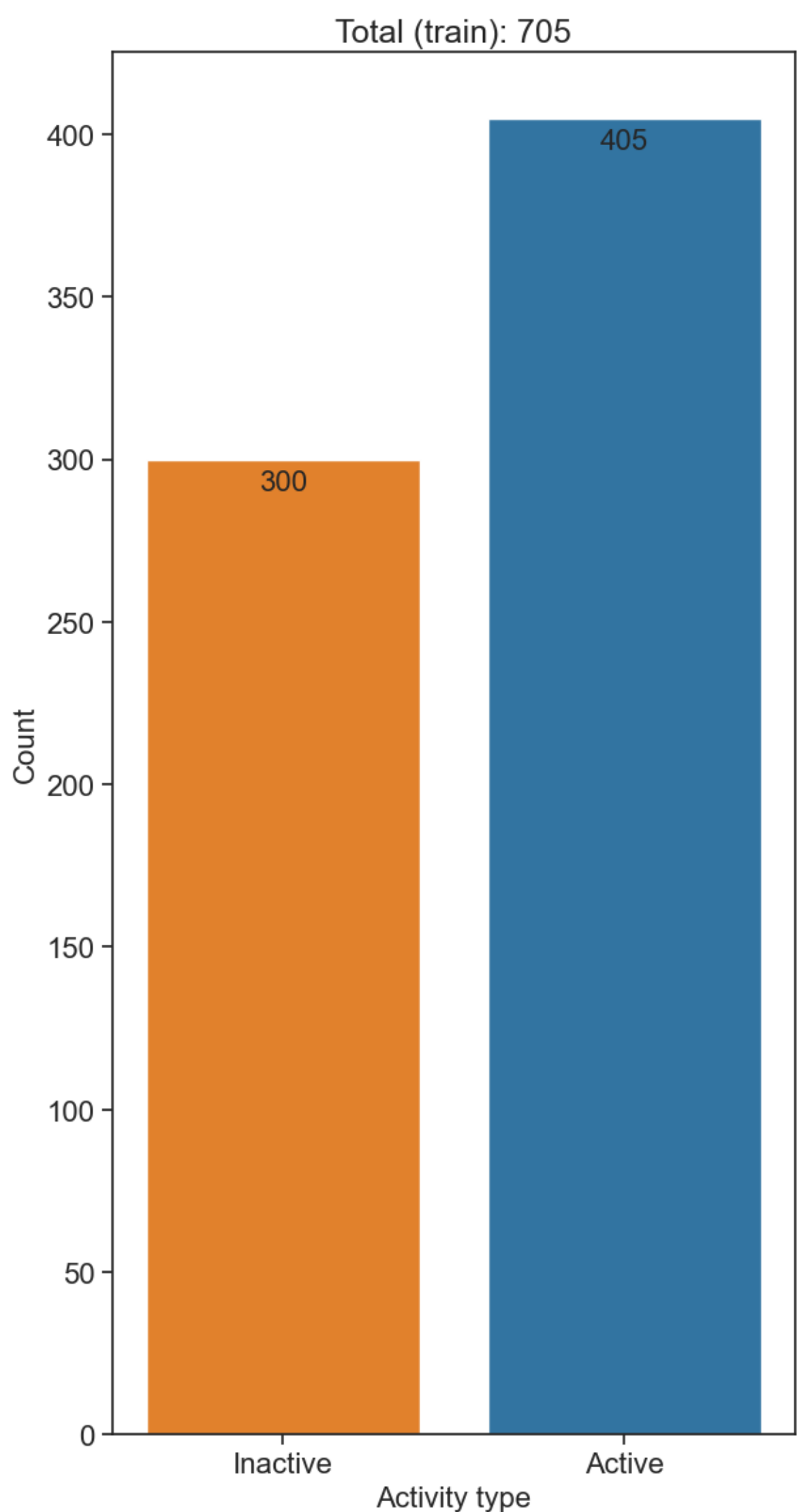
XGBoost Parameters	Value
alpha	3.8293
colsample_bytree	0.7898
gamma	0.7943
lambda	2.4134
learning_rate	0.5824
max_depth	10.0
min_child_weight	2.0
n_estimators	462.0
reg_alpha	0.1484
reg_lambda	0.0491
scale_pos_weight	1.7222
subsample	0.5384



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



Protein: P43681 - metric: SoftVotingXGBoostEnsemble



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