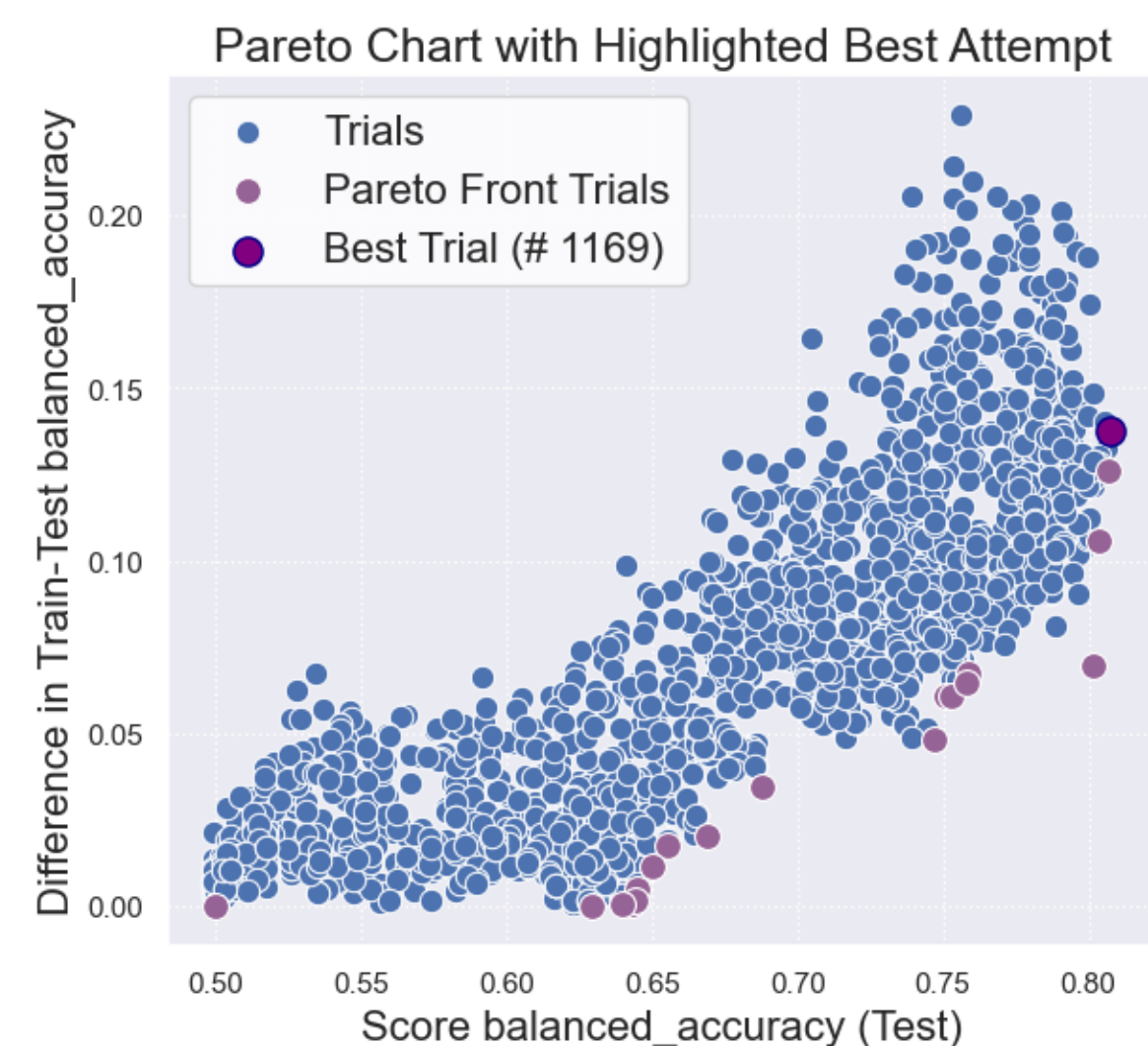
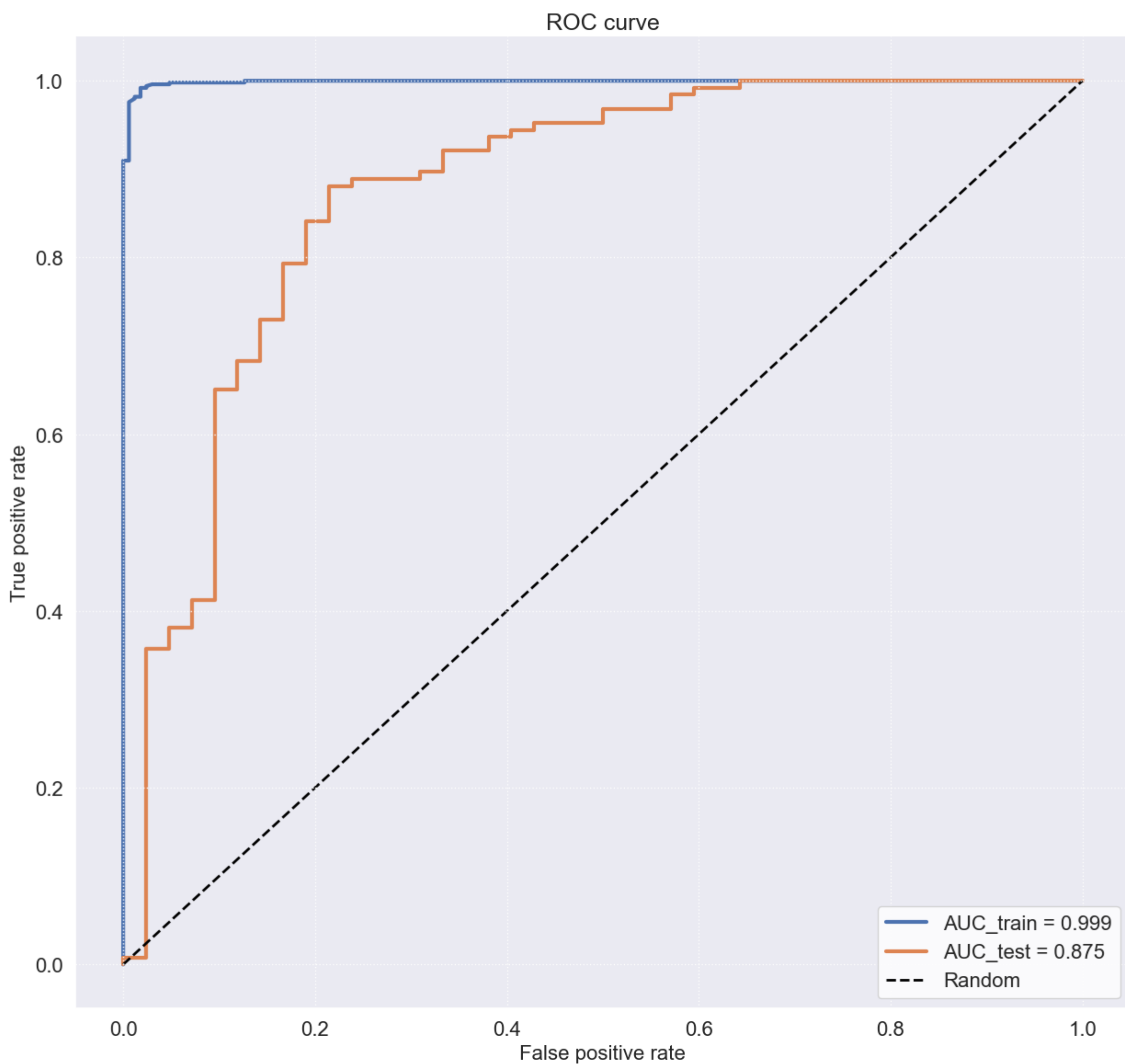
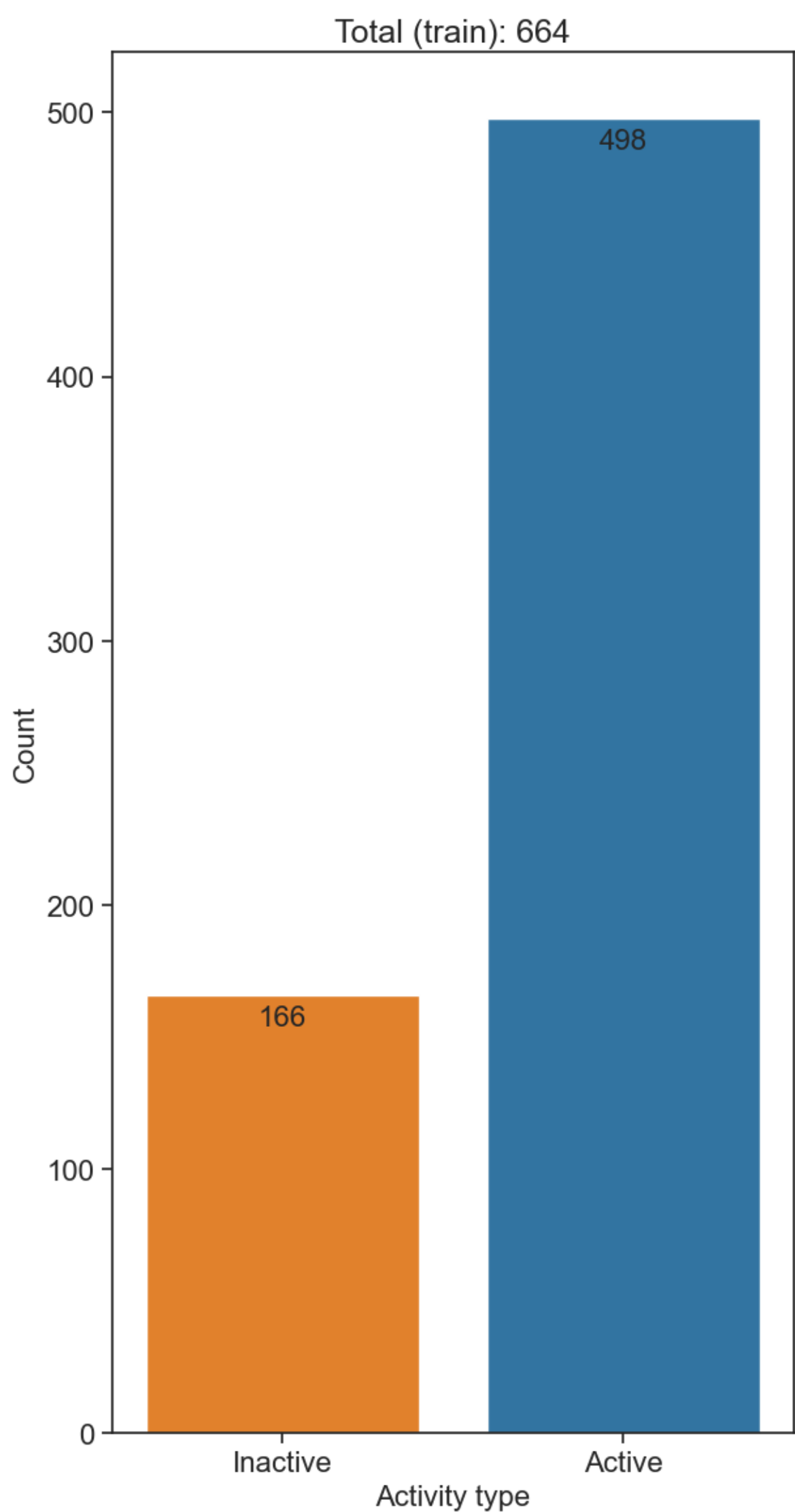
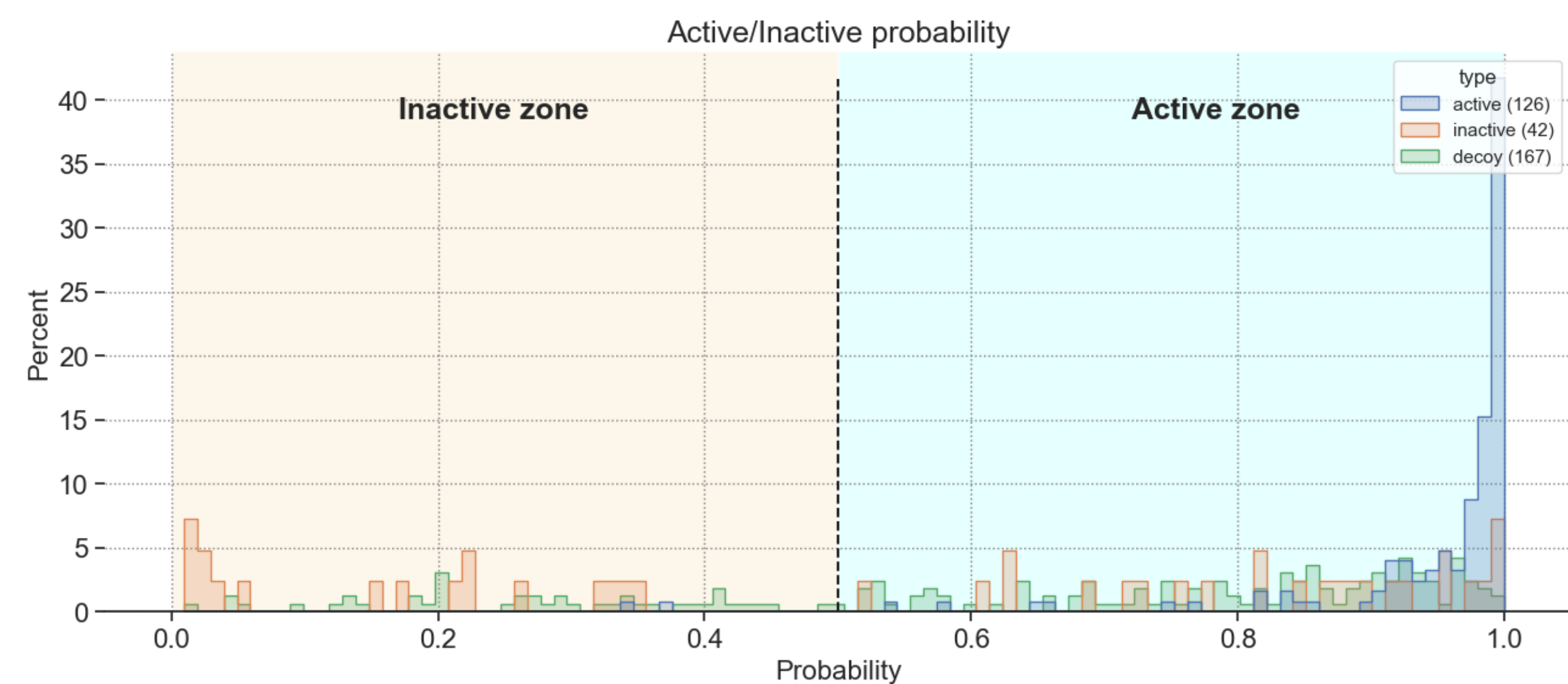
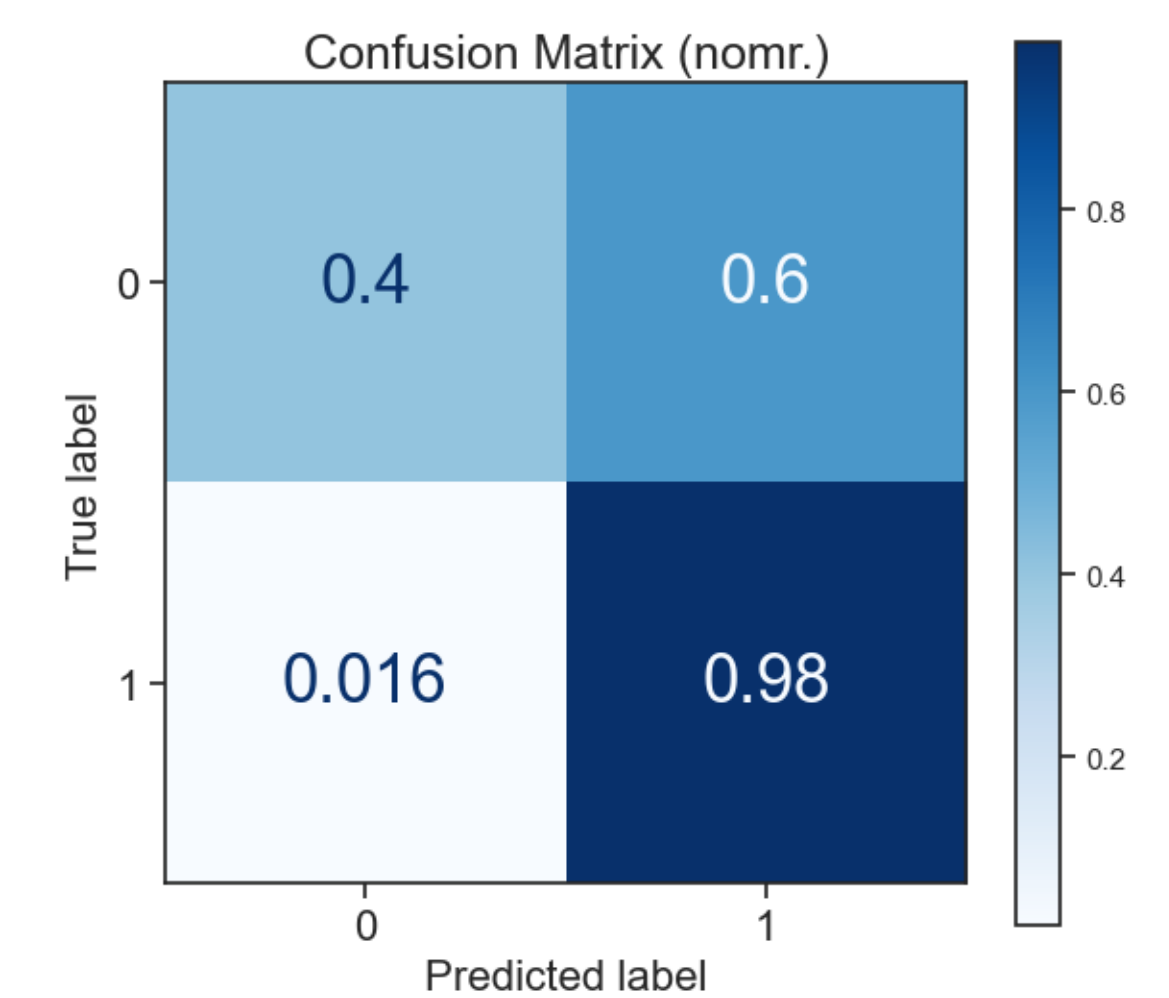
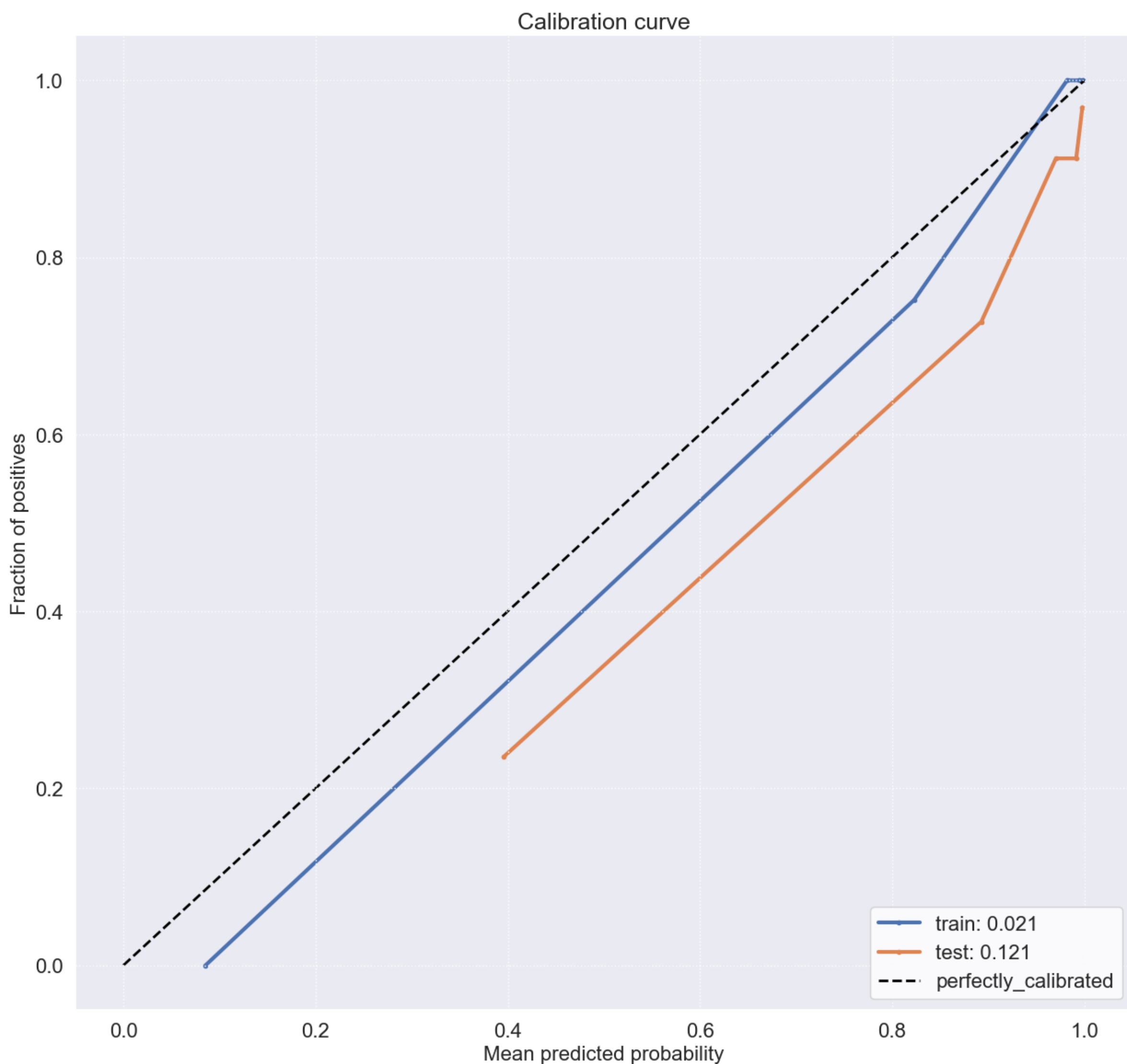
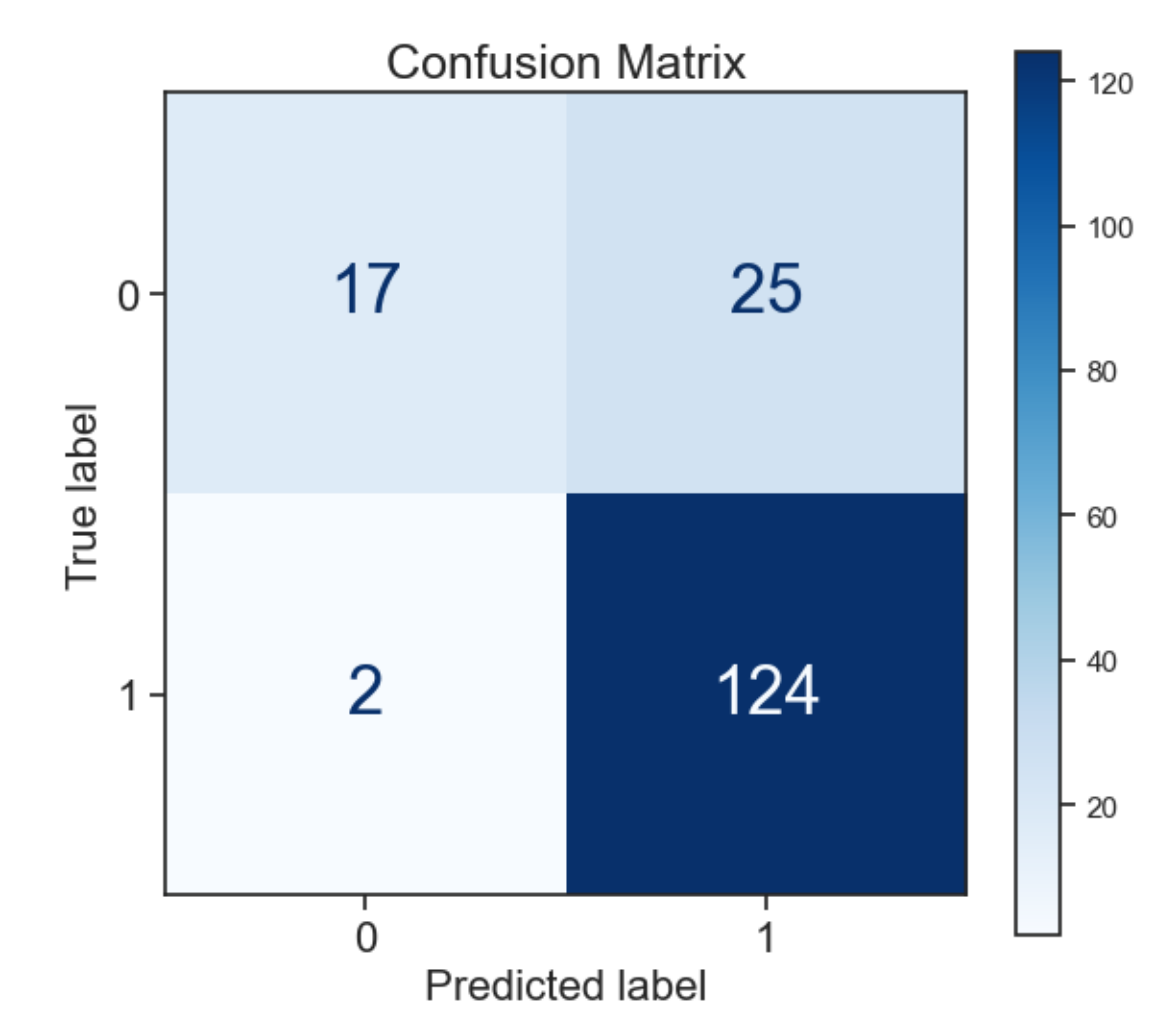


Protein: P35368 - metric: balanced_accuracy

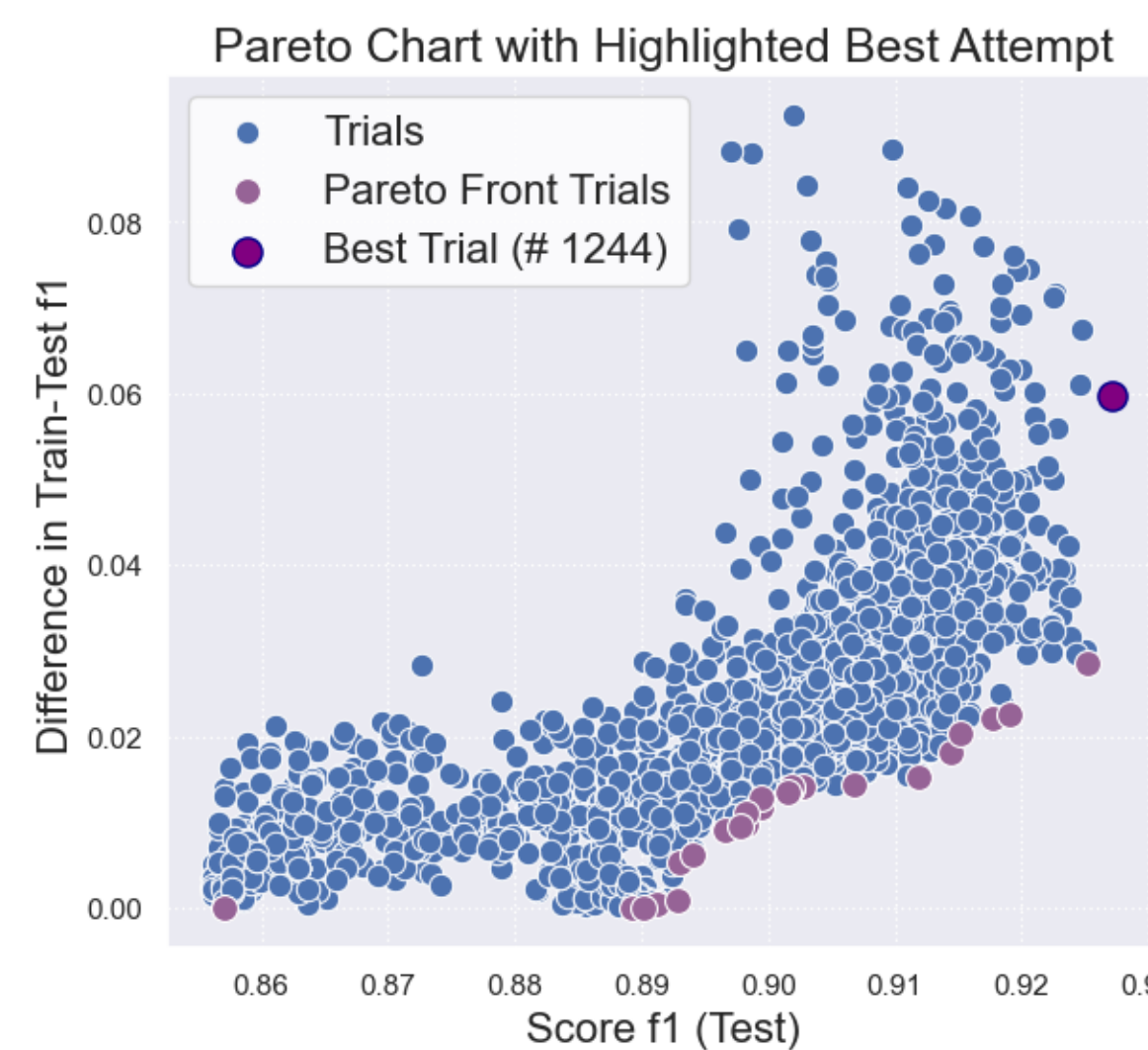
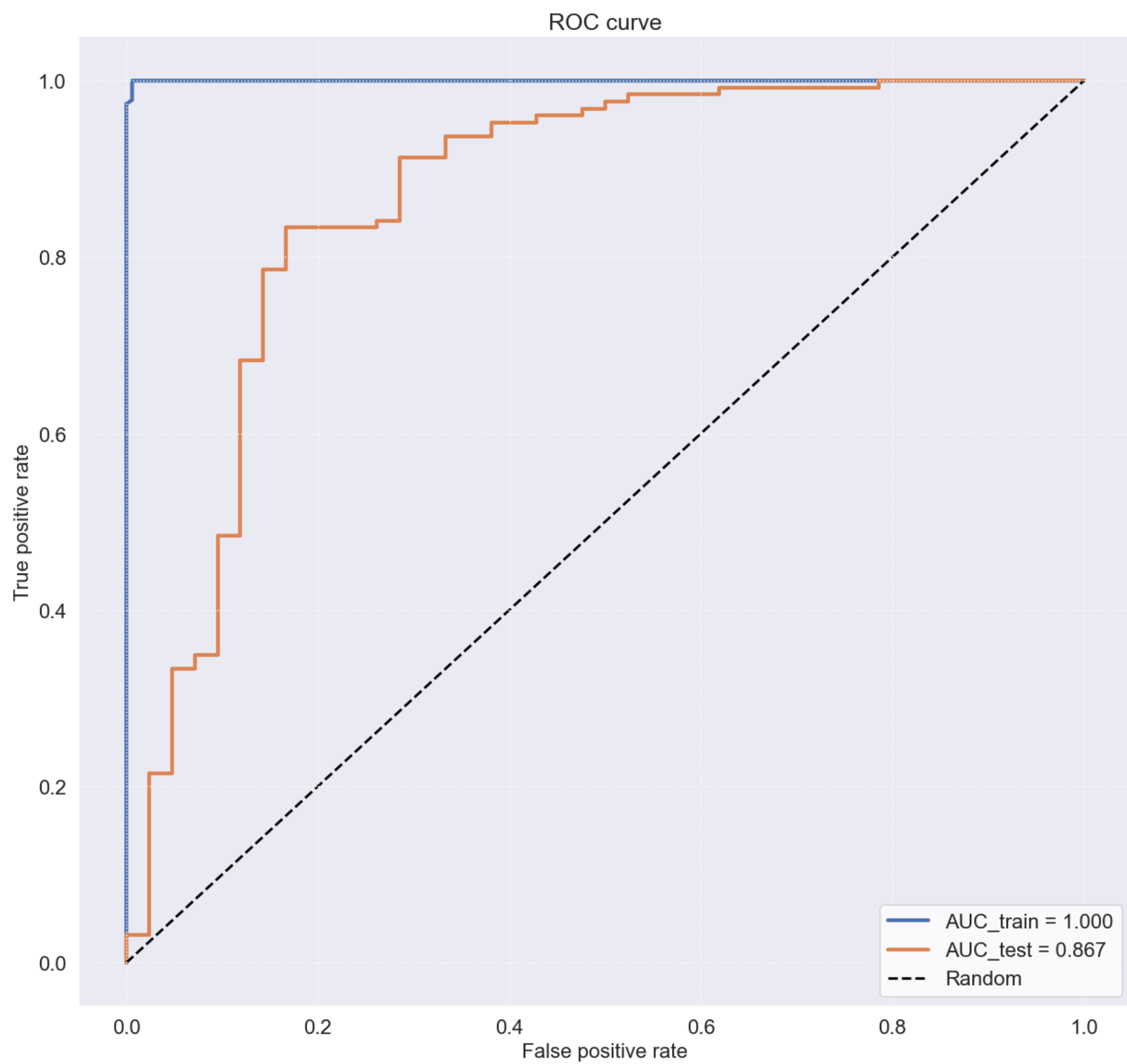
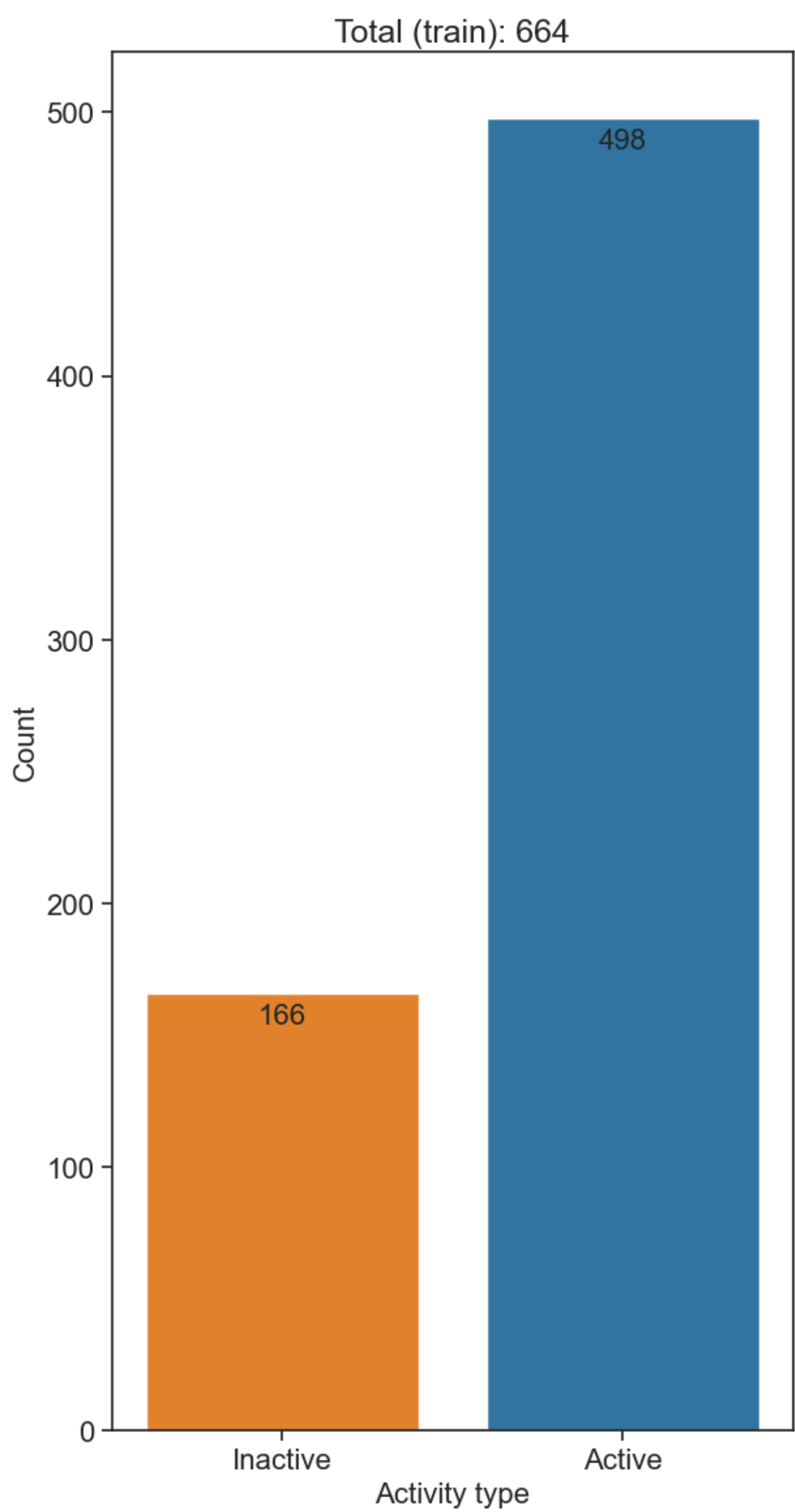


XGBoost Parameters	Value
alpha	4.993
colsample_bytree	0.7539
gamma	0.7071
lambda	2.064
learning_rate	0.0521
max_depth	8.0
min_child_weight	2.0
n_estimators	846.0
reg_alpha	0.0242
reg_lambda	0.1078
scale_pos_weight	2.4873
subsample	0.8912

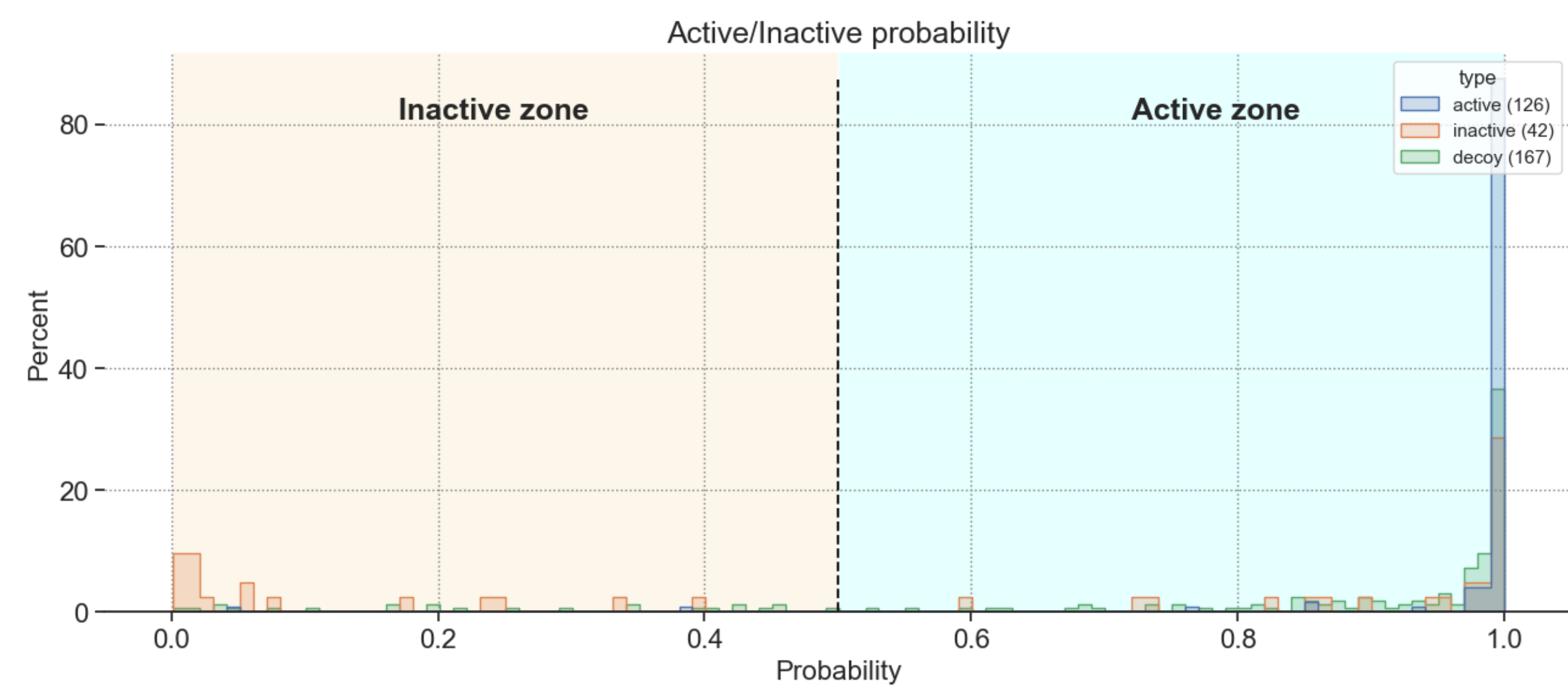
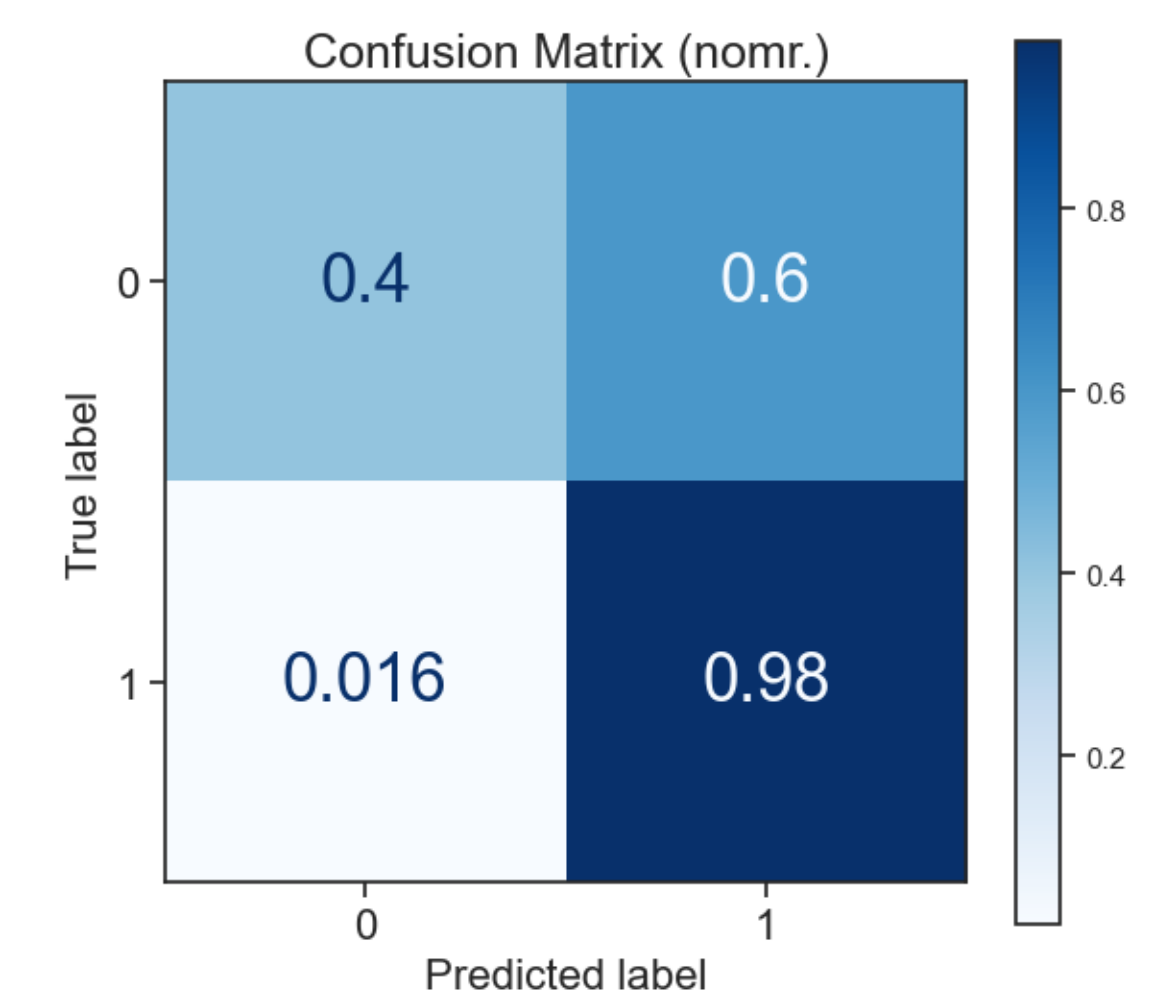
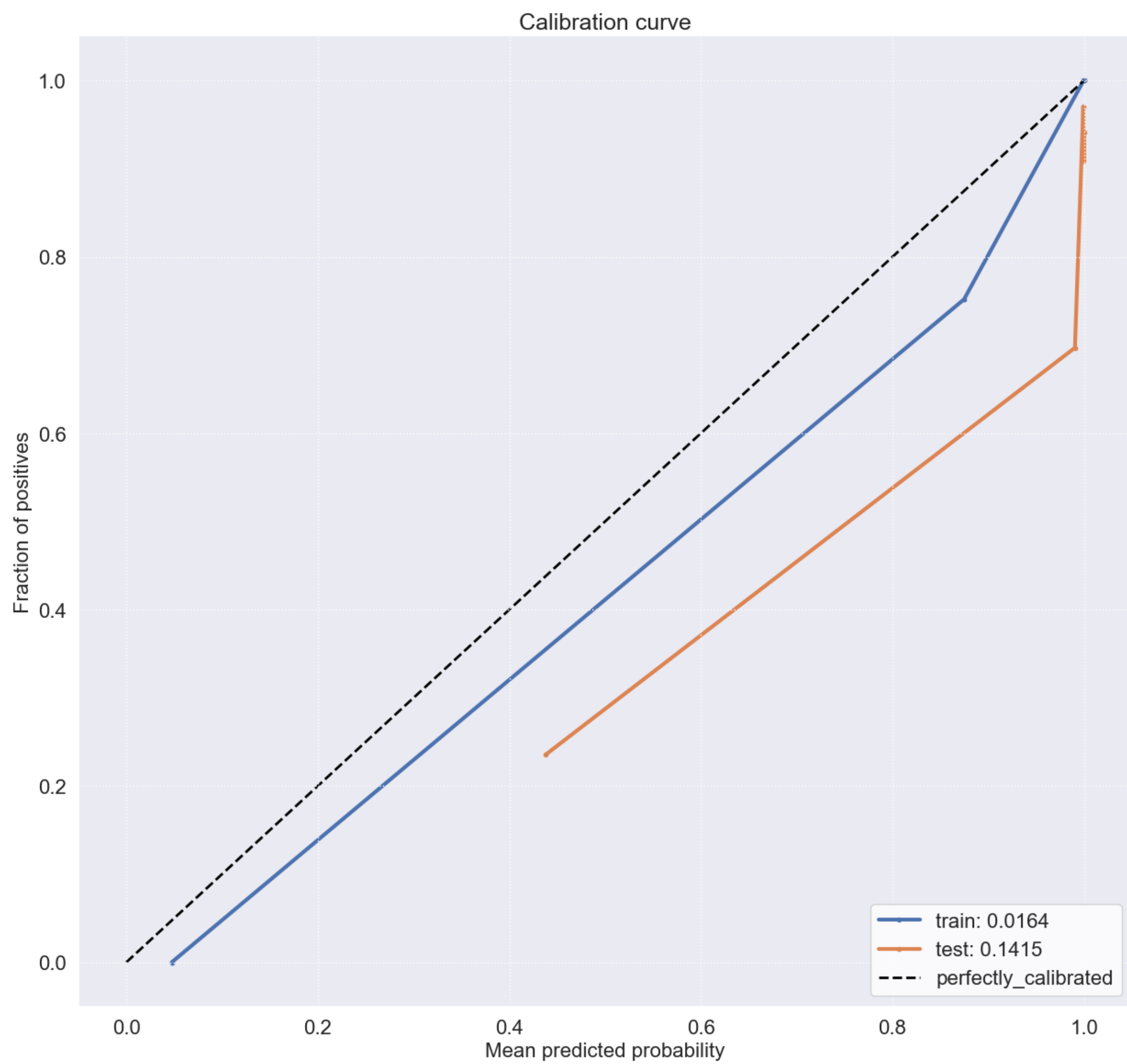
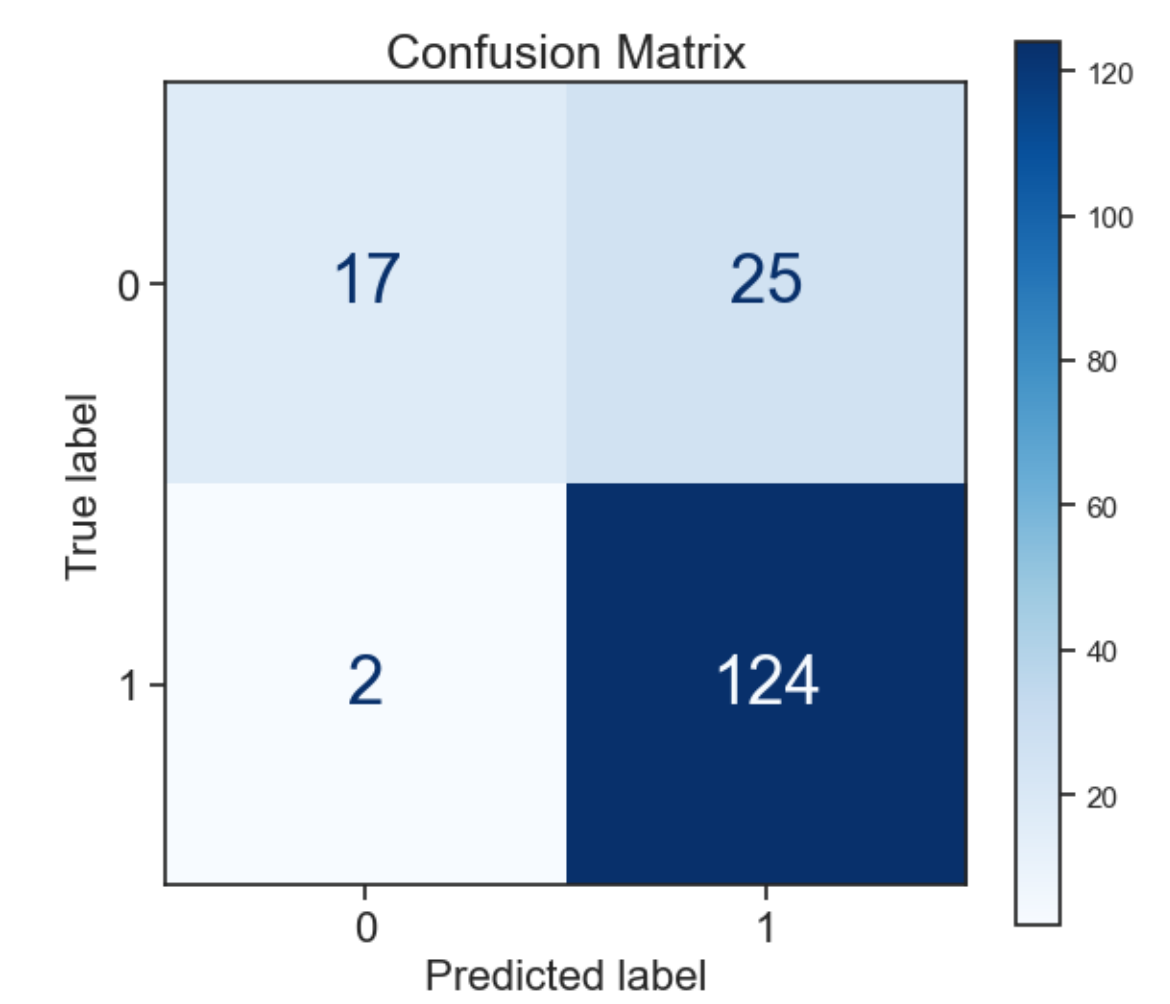


Metric	Train	Test
AUC	0.9989	0.8751
accuracy	0.9684	0.8393
balanced accuracy	0.9388	0.6944
recall_(sens)	0.998	0.9841
specificity	0.8795	0.4048
precision	0.9613	0.8322
f1_score	0.9677	0.8157

Protein: P35368 - metric: f1

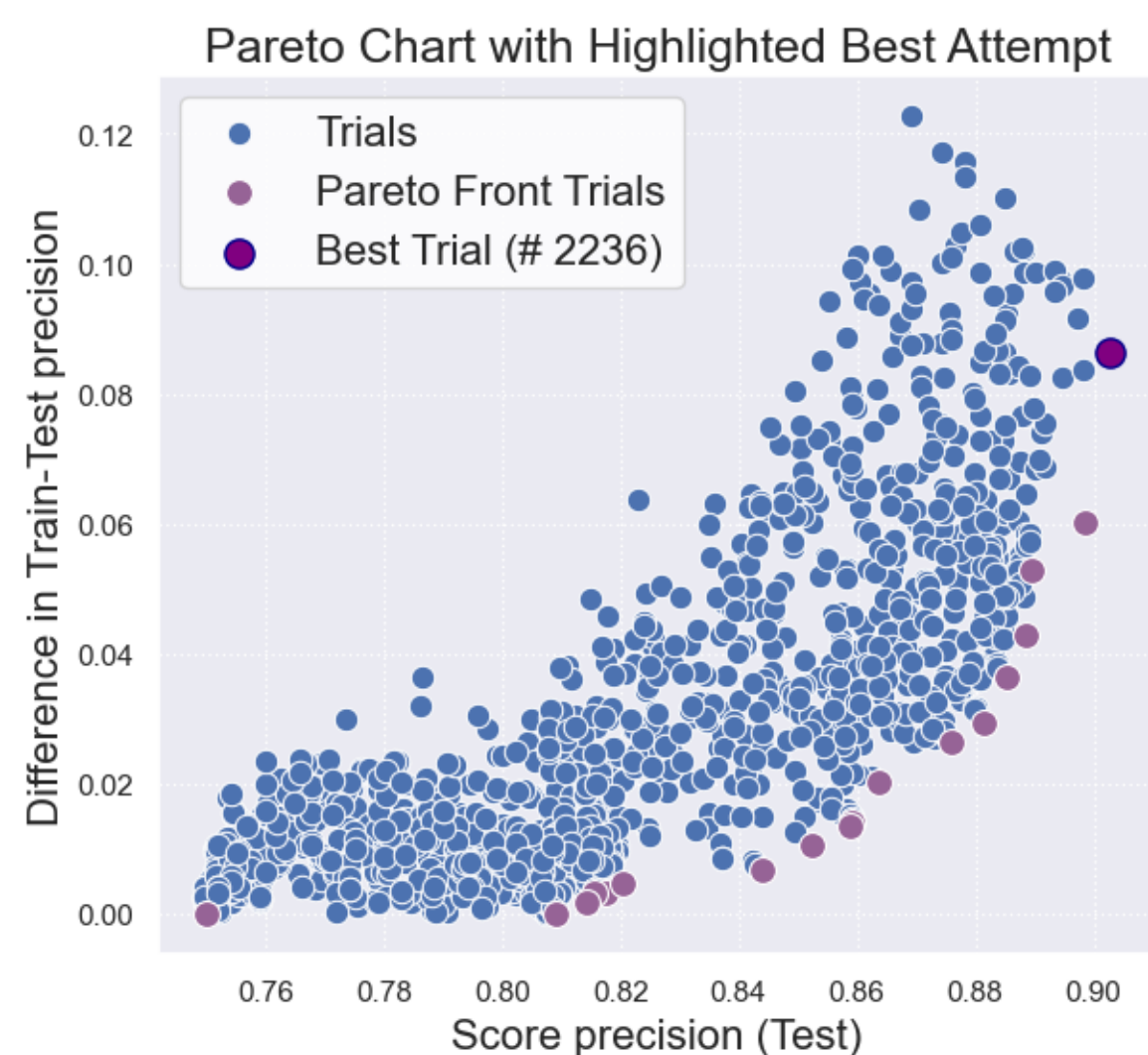
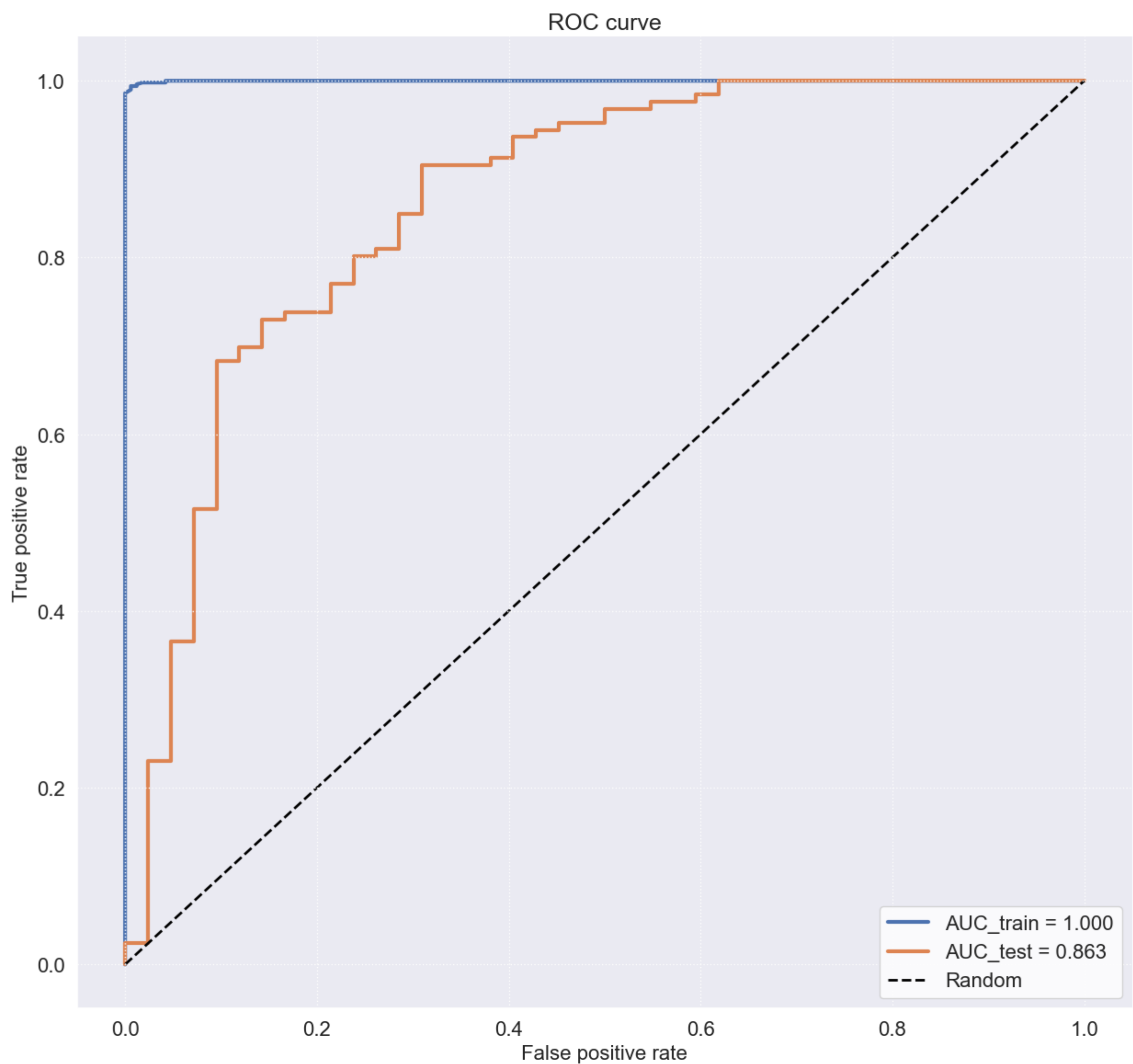
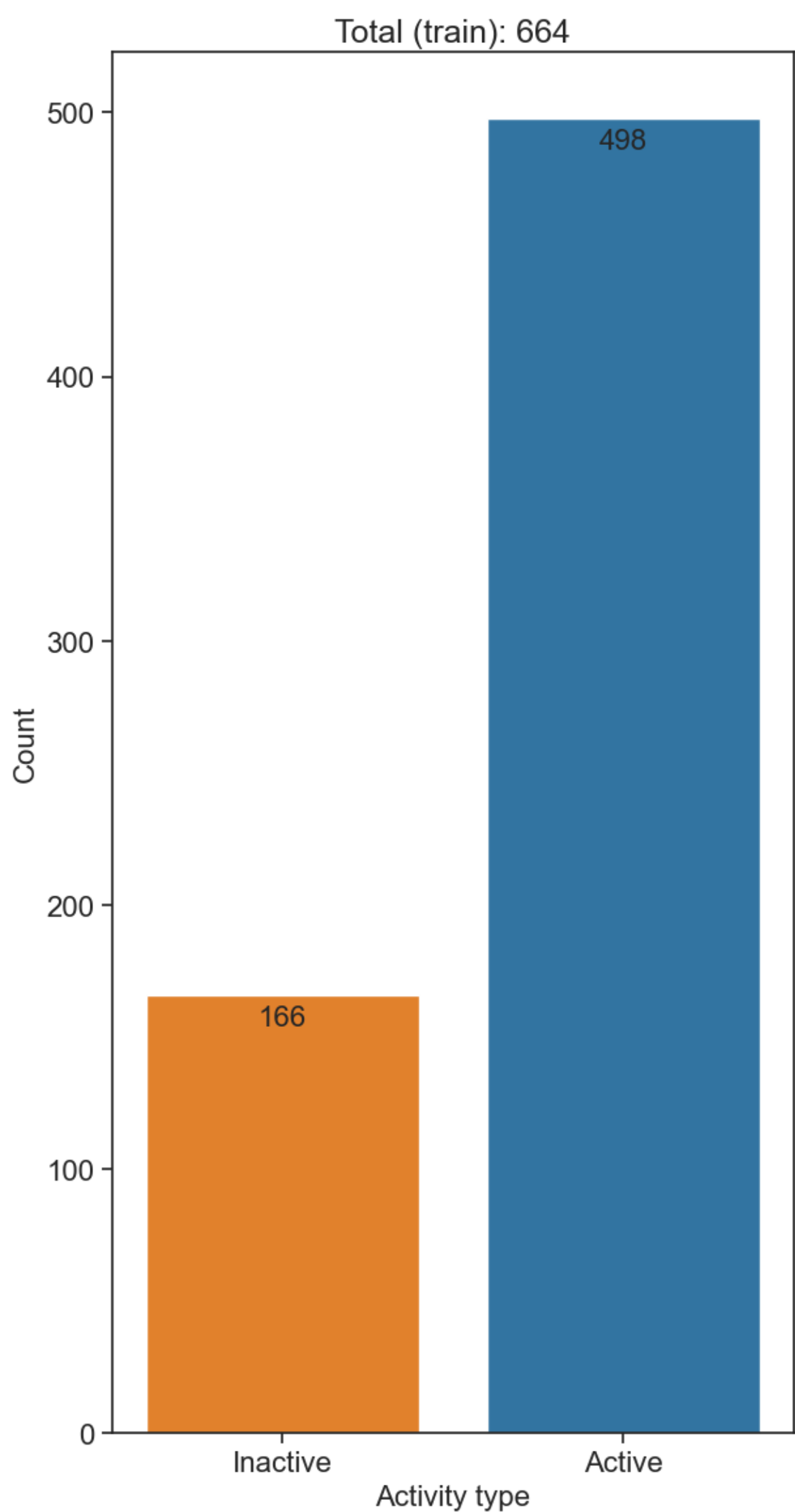


XGBoost Parameters	Value	
alpha	1.0734	
colsample_bytree	0.5018	
gamma	0.3041	
lambda	3.4809	
learning_rate	0.0748	
max_depth	9.0	
min_child_weight	1.0	
n_estimators	493.0	
reg_alpha	0.0458	
reg_lambda	0.6089	
scale_pos_weight	76.6413	
subsample	0.5228	

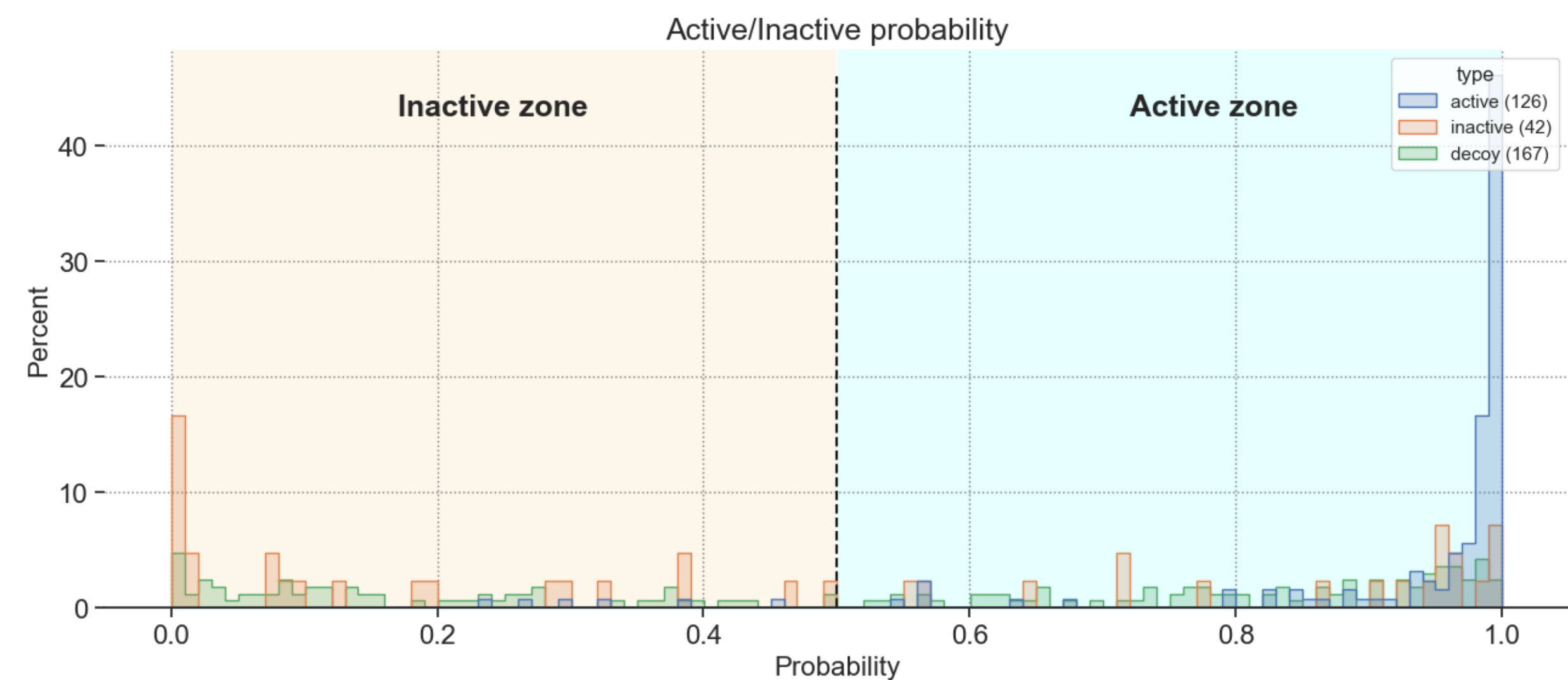
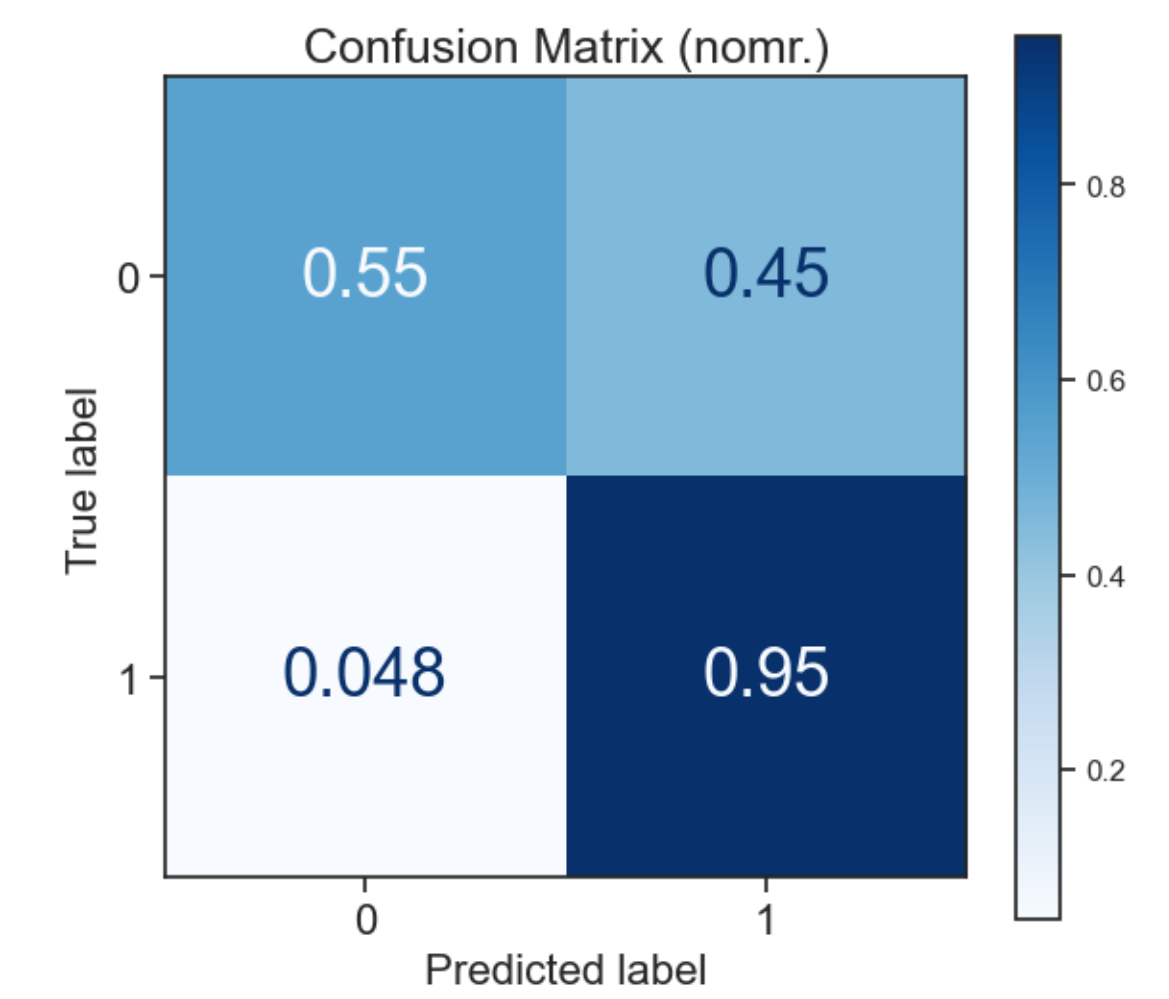
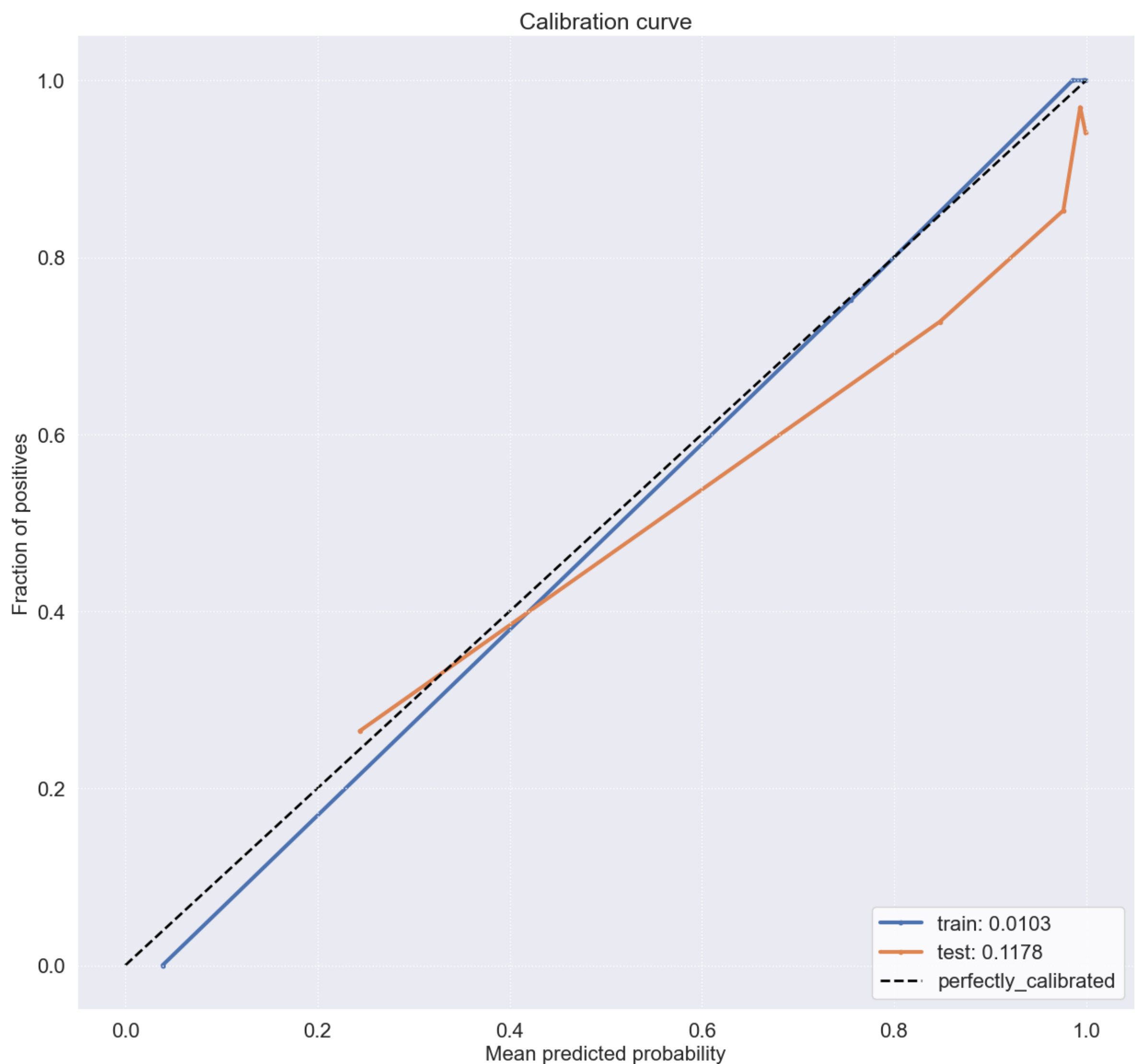
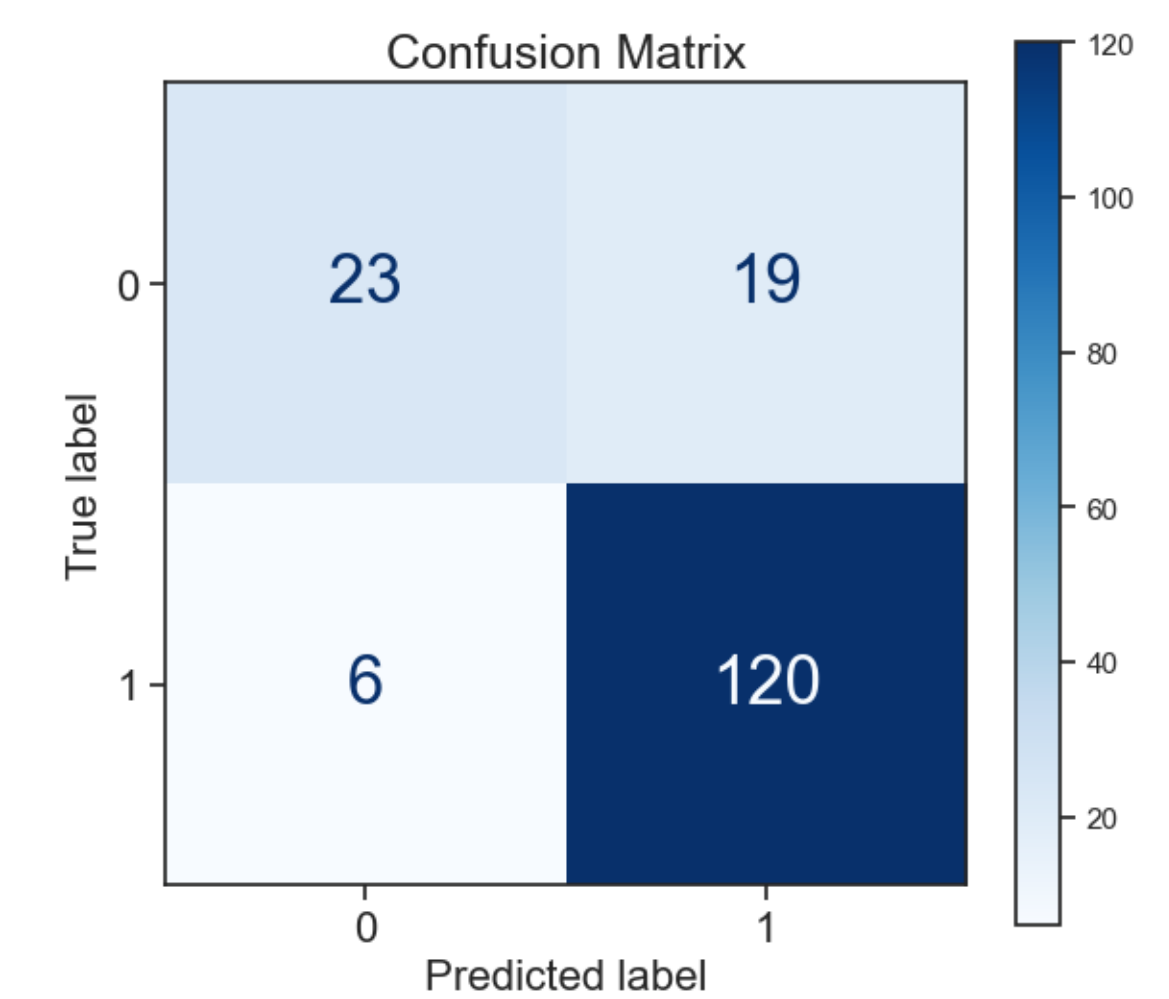


Metric	Train	Test
AUC	0.9999	0.8668
accuracy	0.9804	0.8393
balanced accuracy	0.9608	0.6944
recall_(sens)	1.0	0.9841
specificity	0.9217	0.4048
precision	0.9746	0.8322
f1_score	0.9801	0.8157

Protein: P35368 - metric: precision

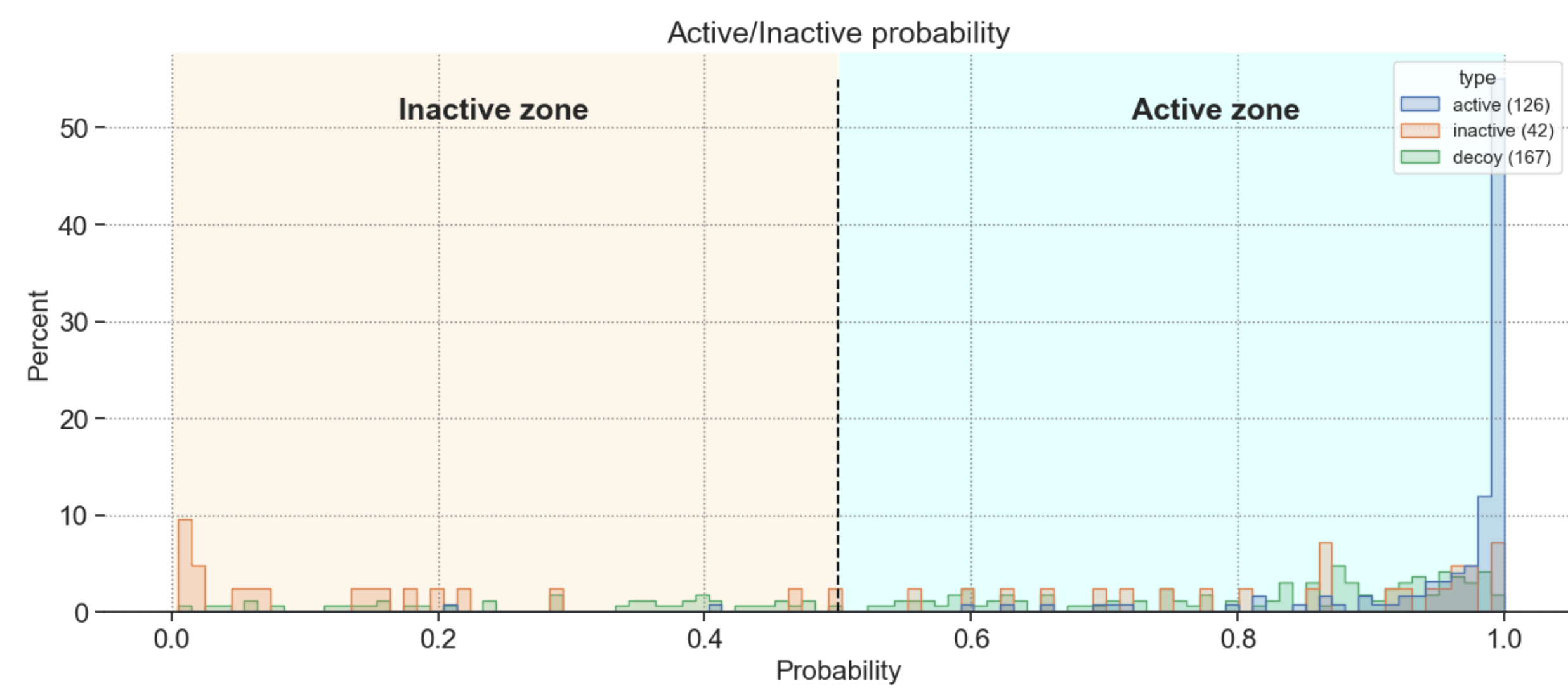
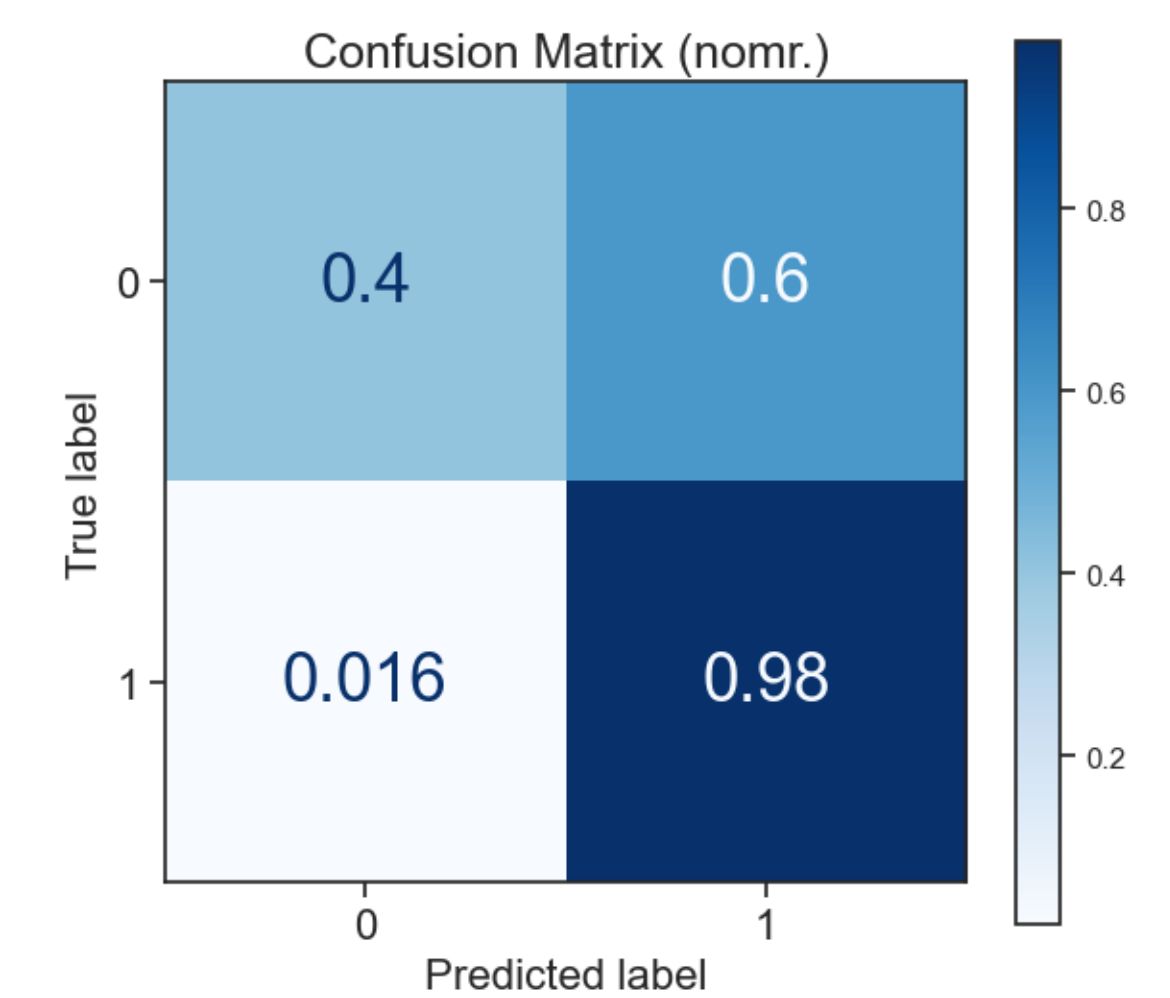
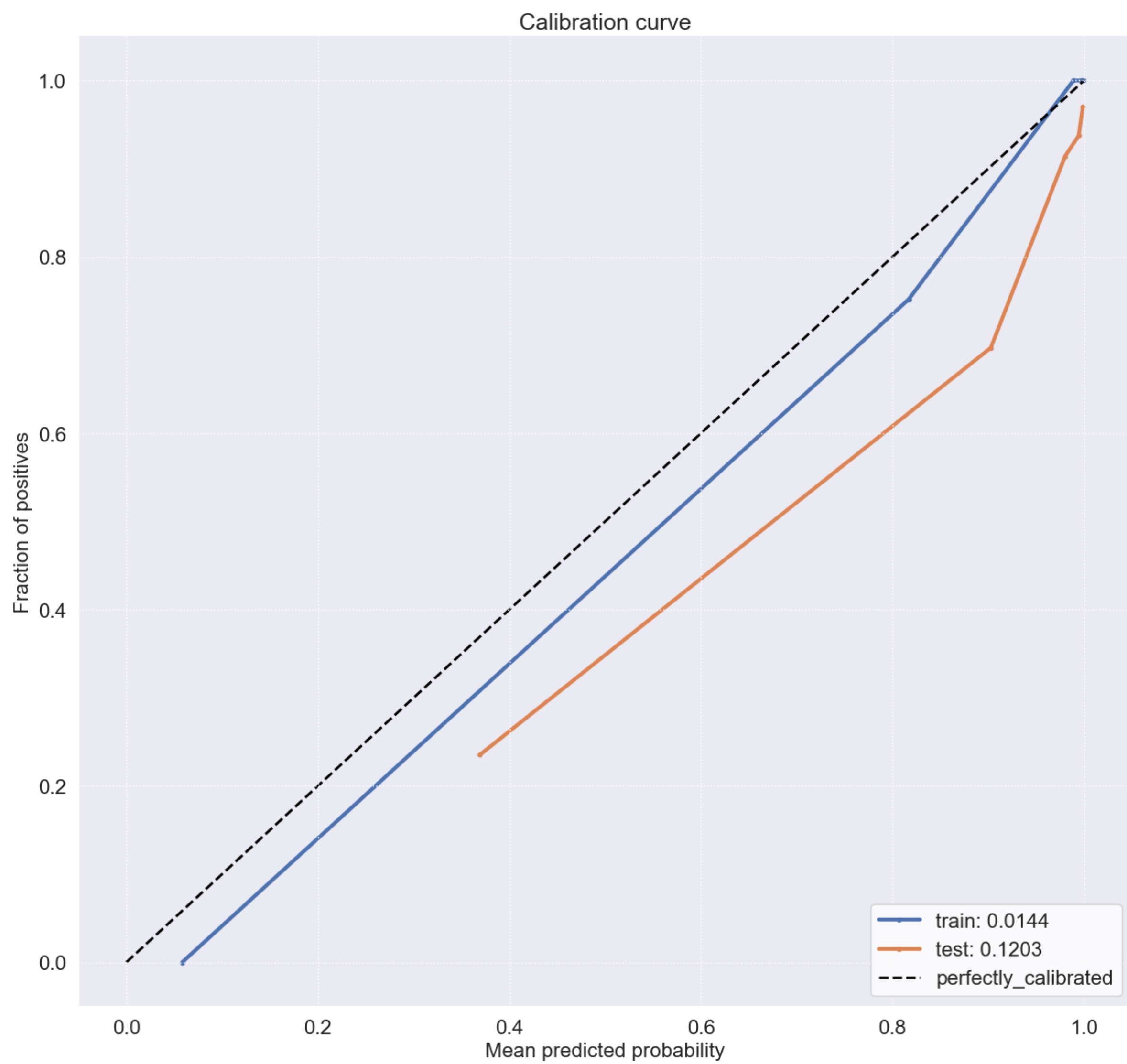
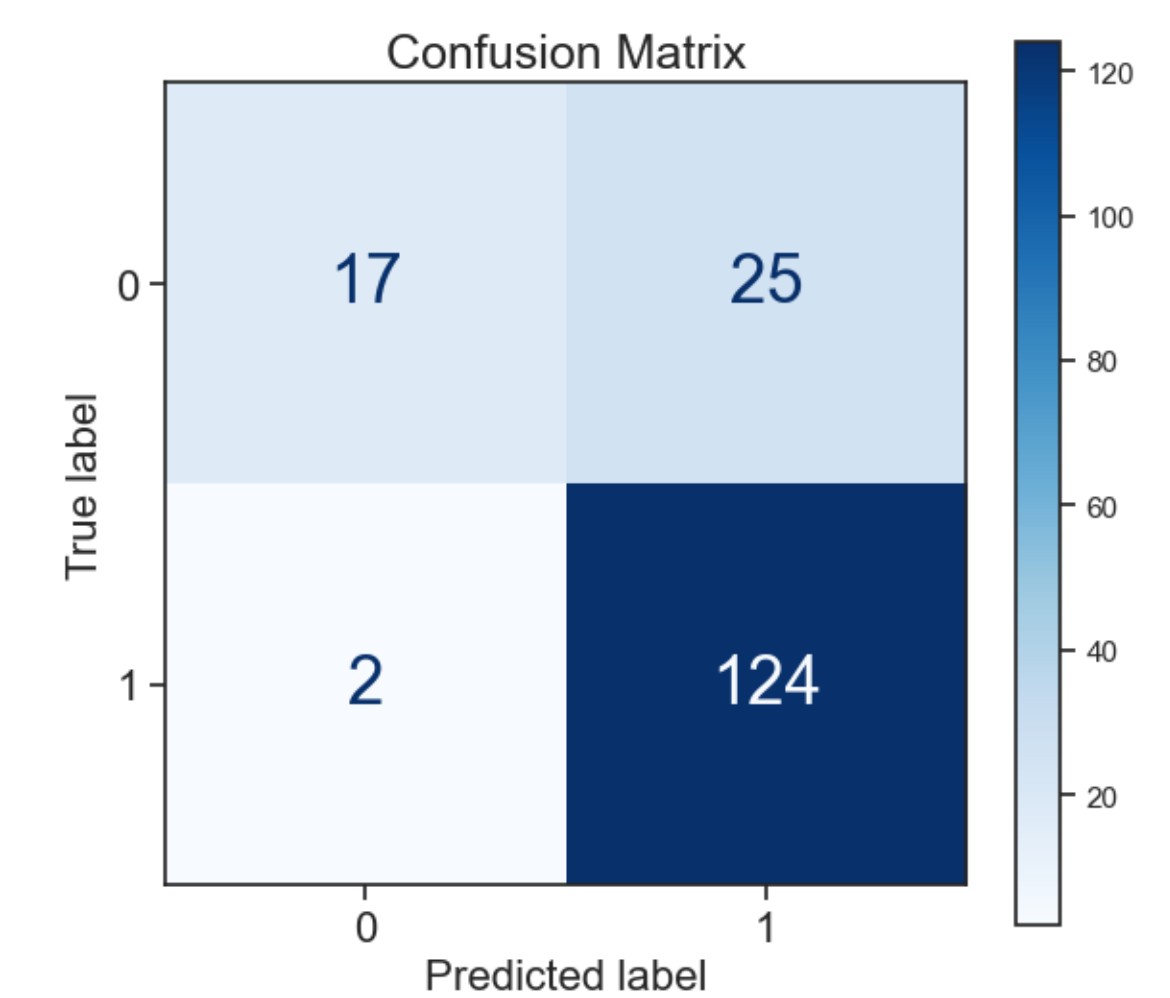
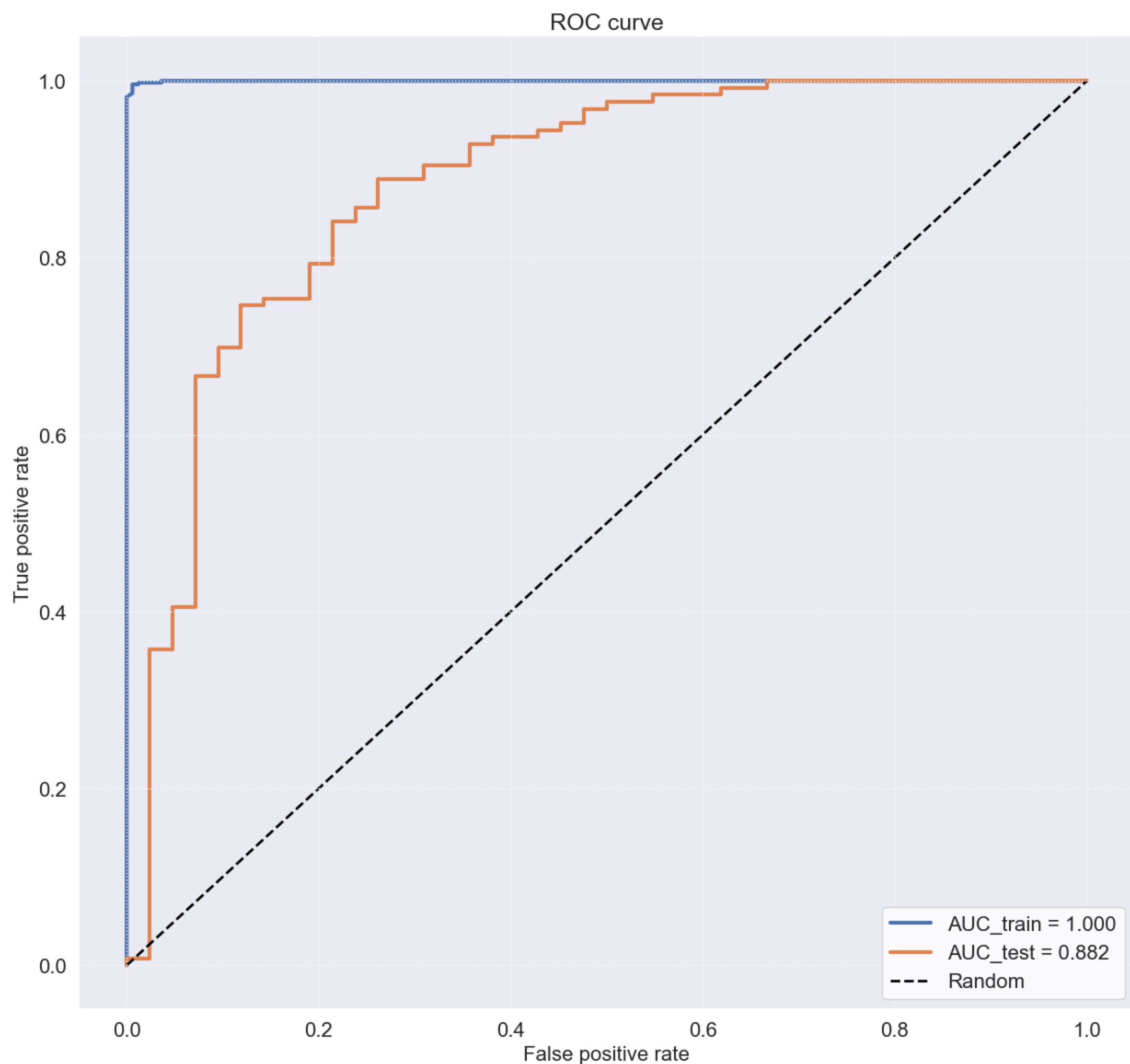
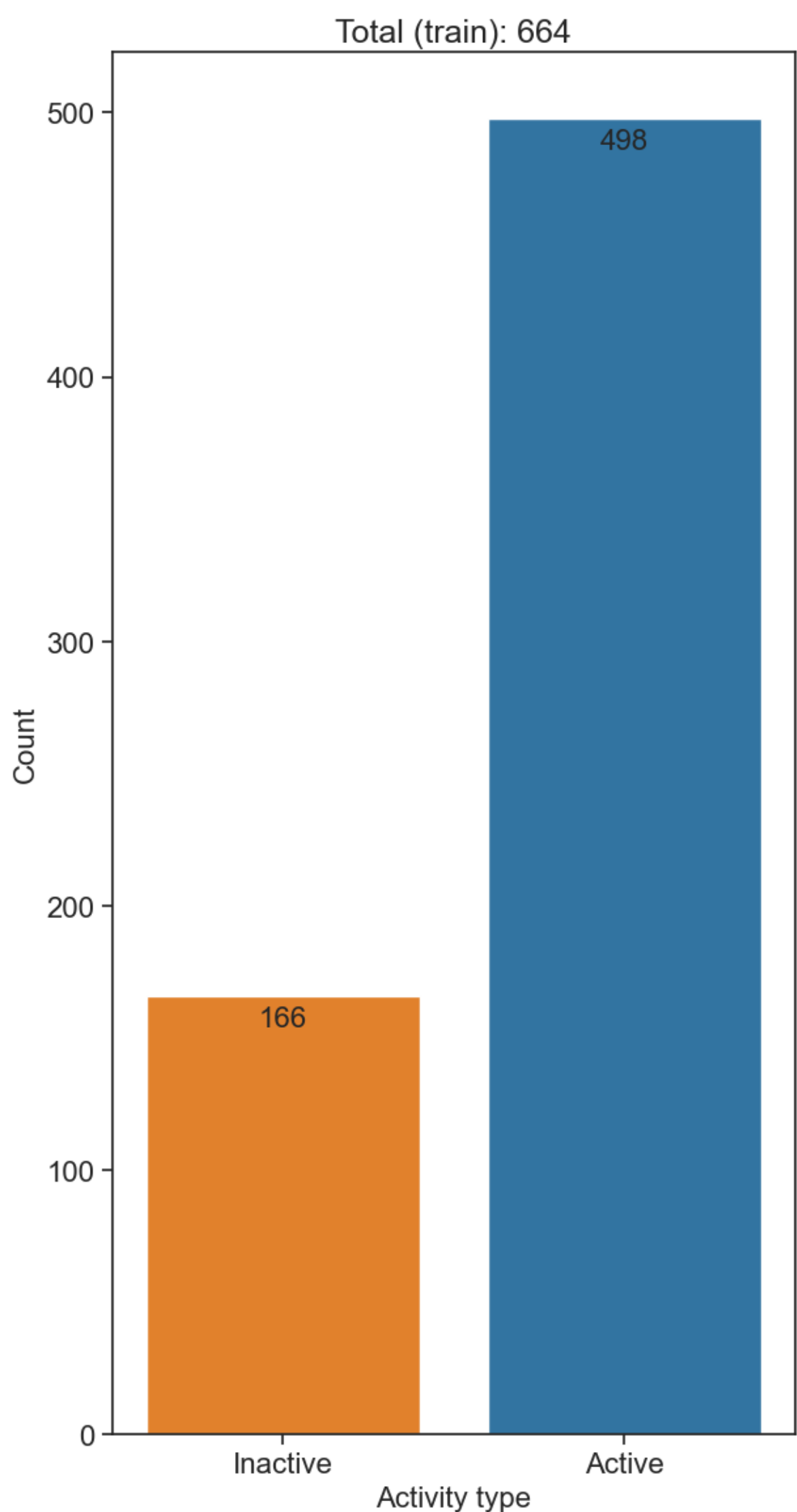


XGBoost Parameters	Value
alpha	1.307
colsample_bytree	0.9495
gamma	0.5528
lambda	2.2608
learning_rate	0.3126
max_depth	3.0
min_child_weight	1.0
n_estimators	652.0
reg_alpha	0.3944
reg_lambda	0.0982
scale_pos_weight	1.2743
subsample	0.6926



Metric	Train	Test
AUC	0.9998	0.8628
accuracy	0.991	0.8512
balanced accuracy	0.9839	0.75
recall_(sens)	0.998	0.9524
specificity	0.9699	0.5476
precision	0.99	0.8633
f1_score	0.9909	0.8412

Protein: P35368 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9998	0.8815
accuracy	0.9849	0.8393
balanced accuracy	0.9699	0.6944
recall_(sens)	1.0	0.9841
specificity	0.9398	0.4048
precision	0.9803	0.8322
f1_score	0.9848	0.8157