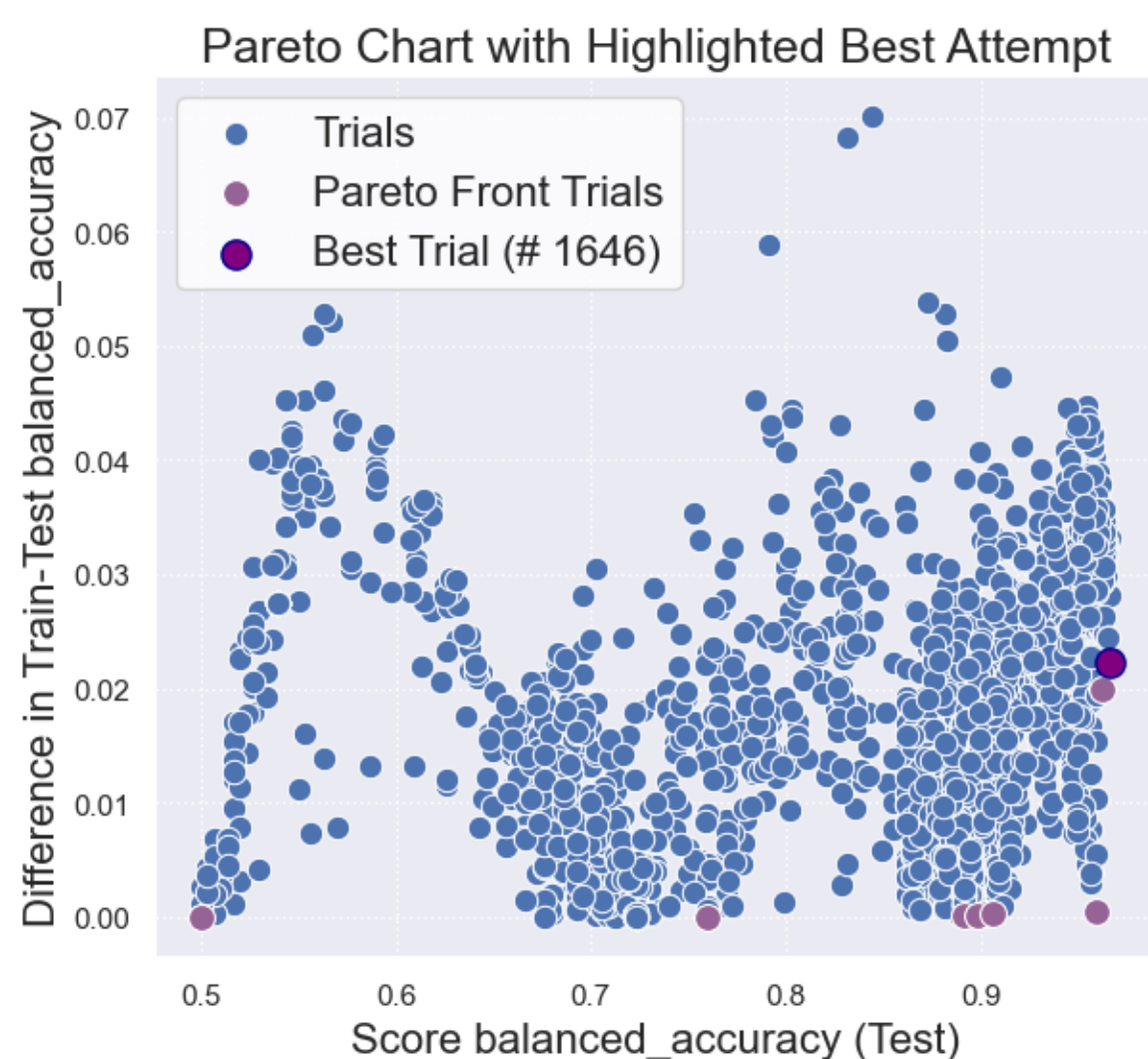
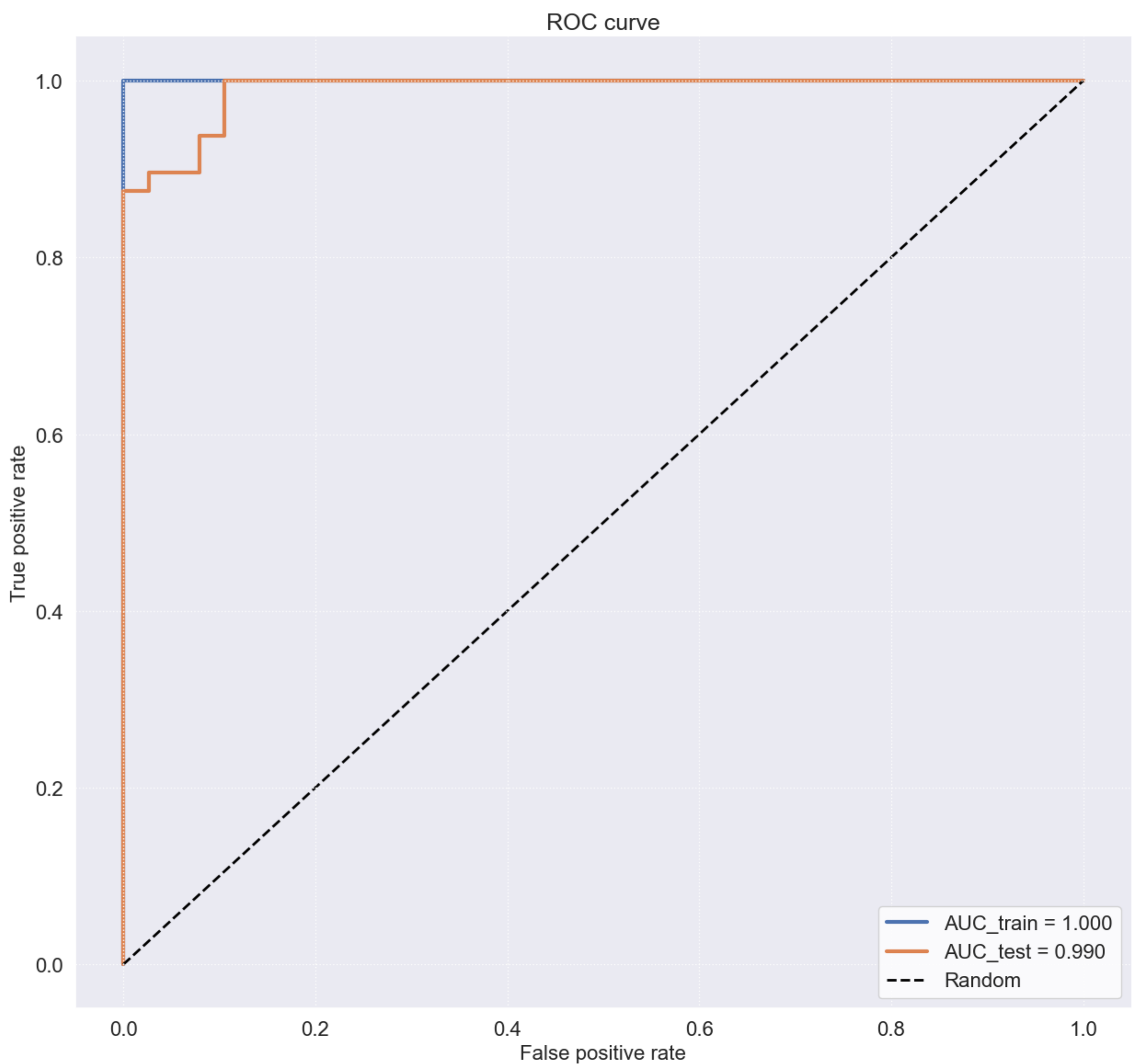
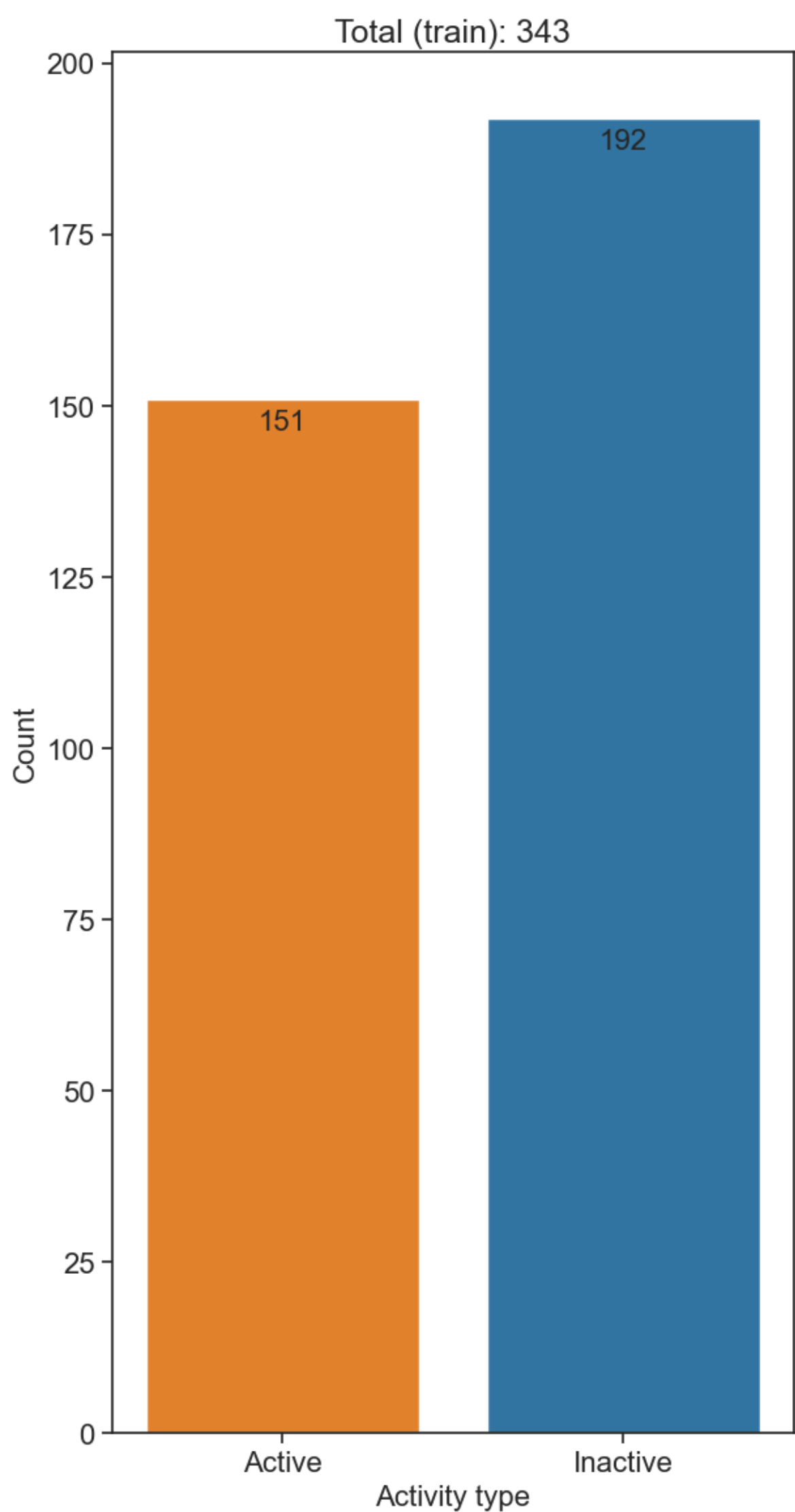
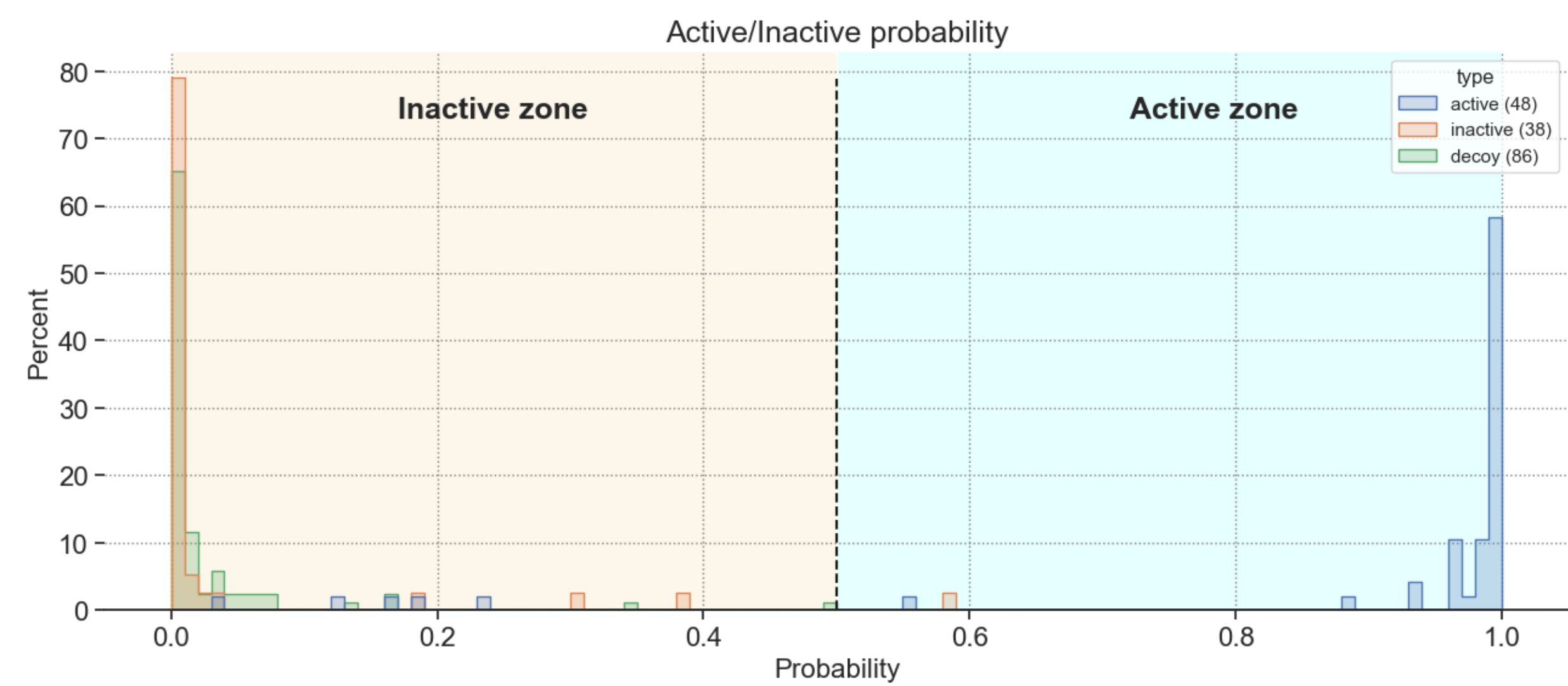
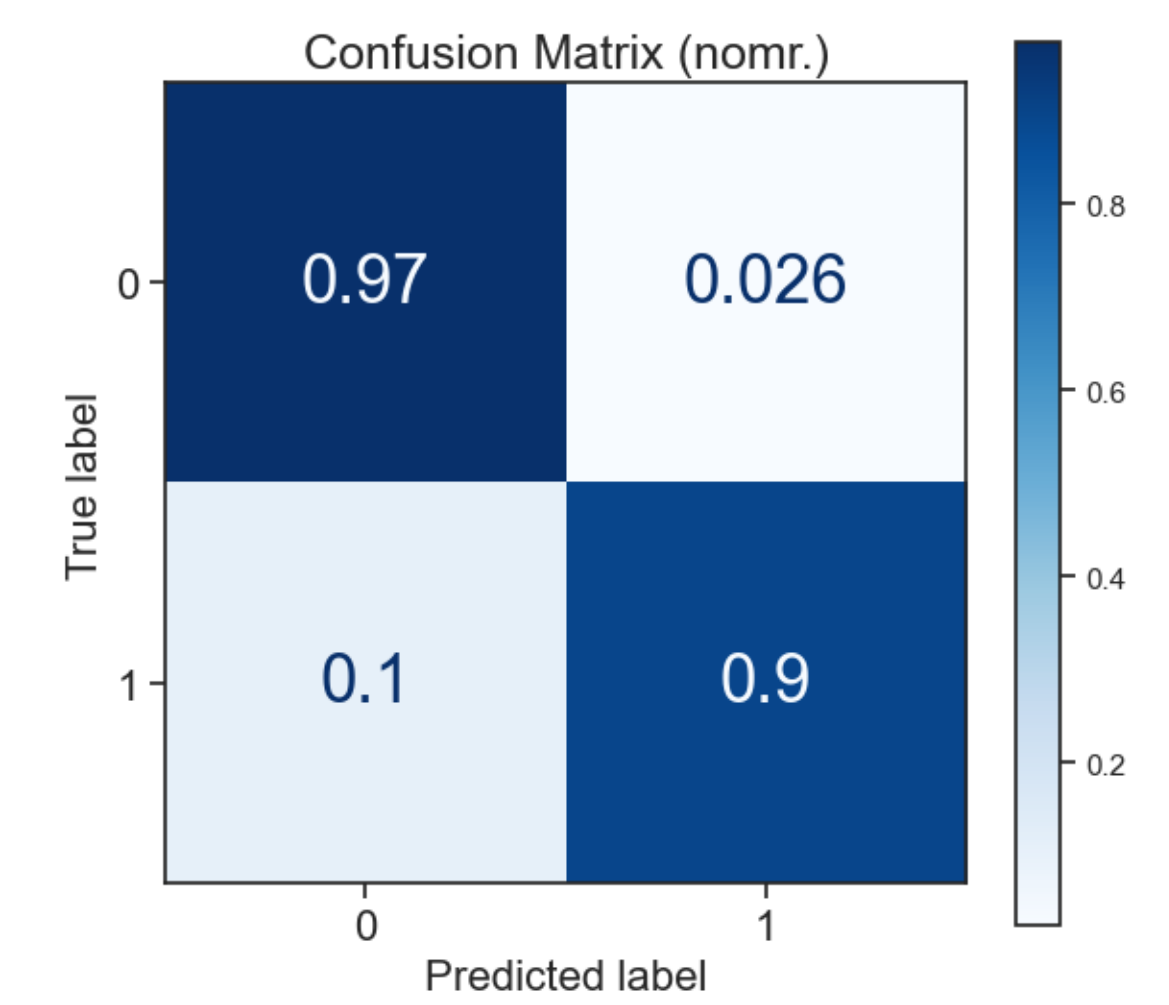
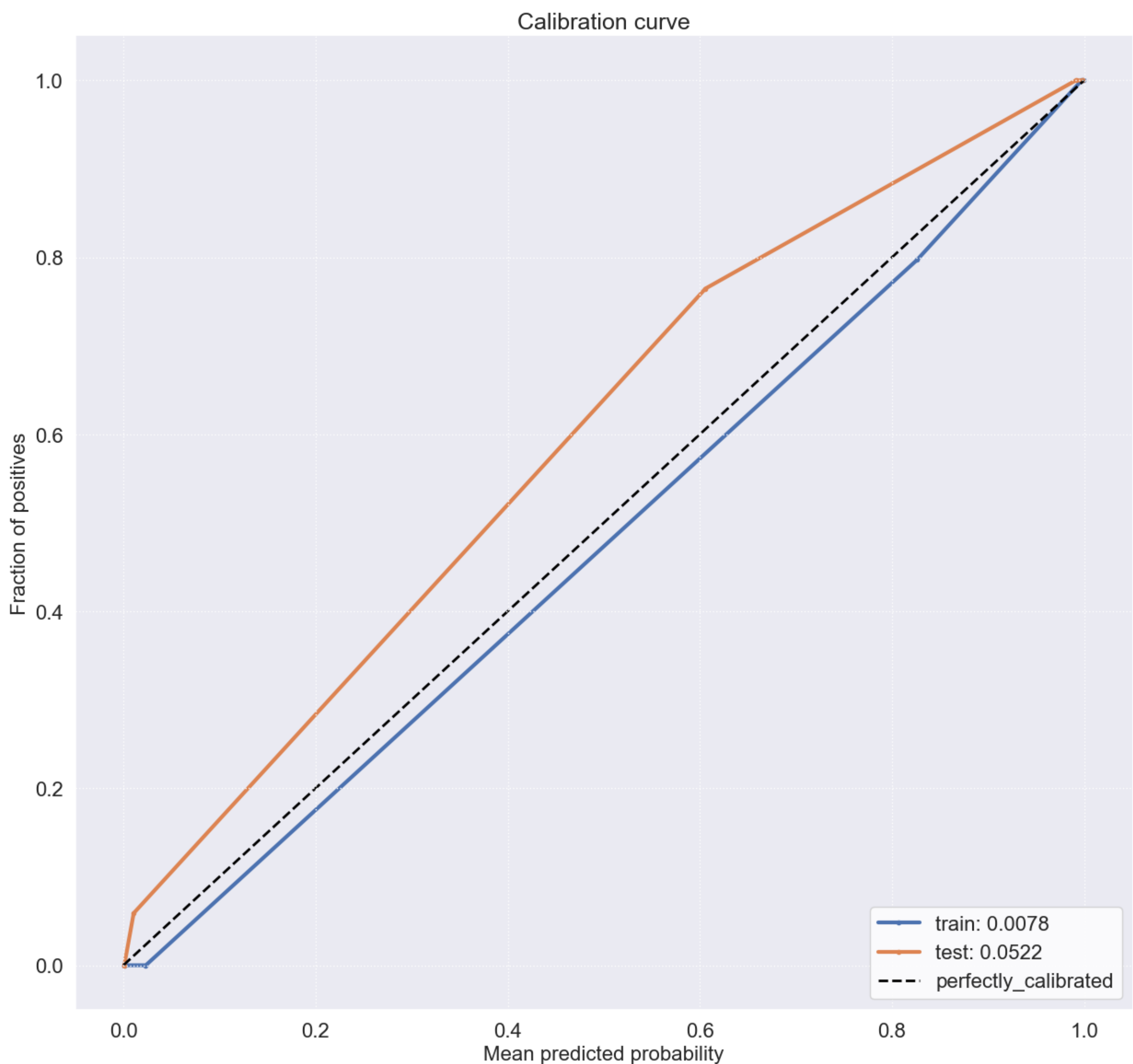
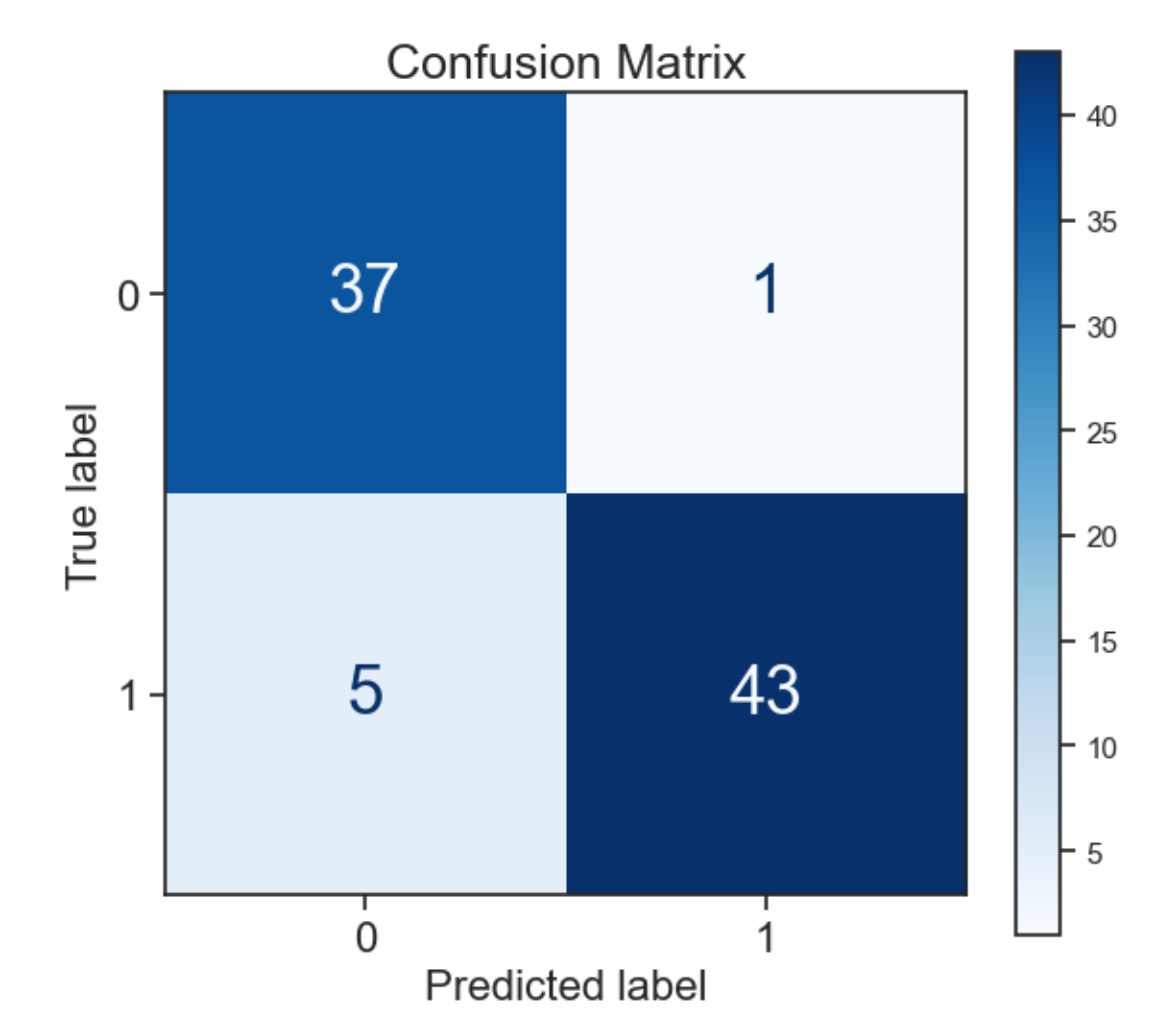


Protein: P11473 - metric: balanced\_accuracy



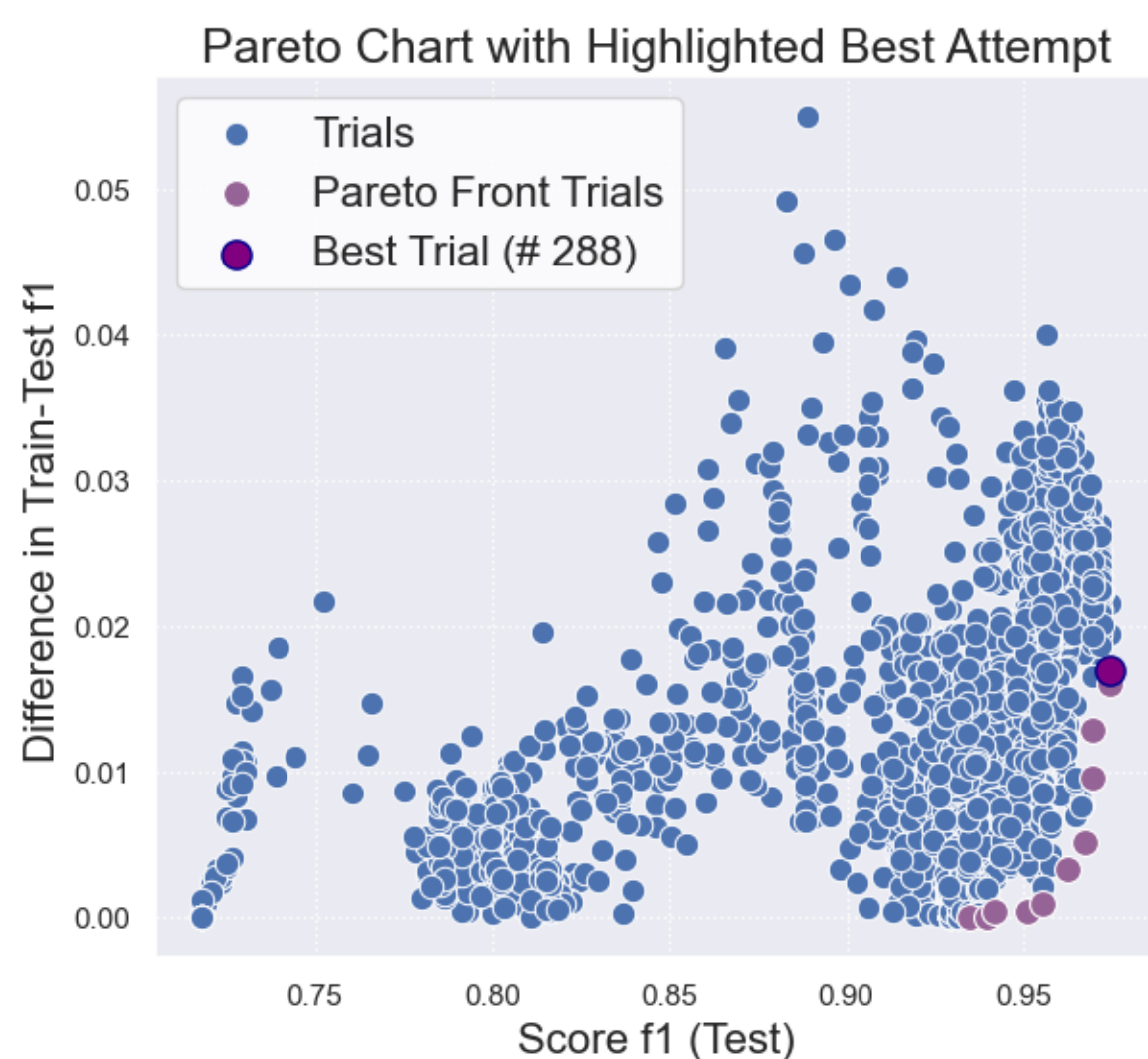
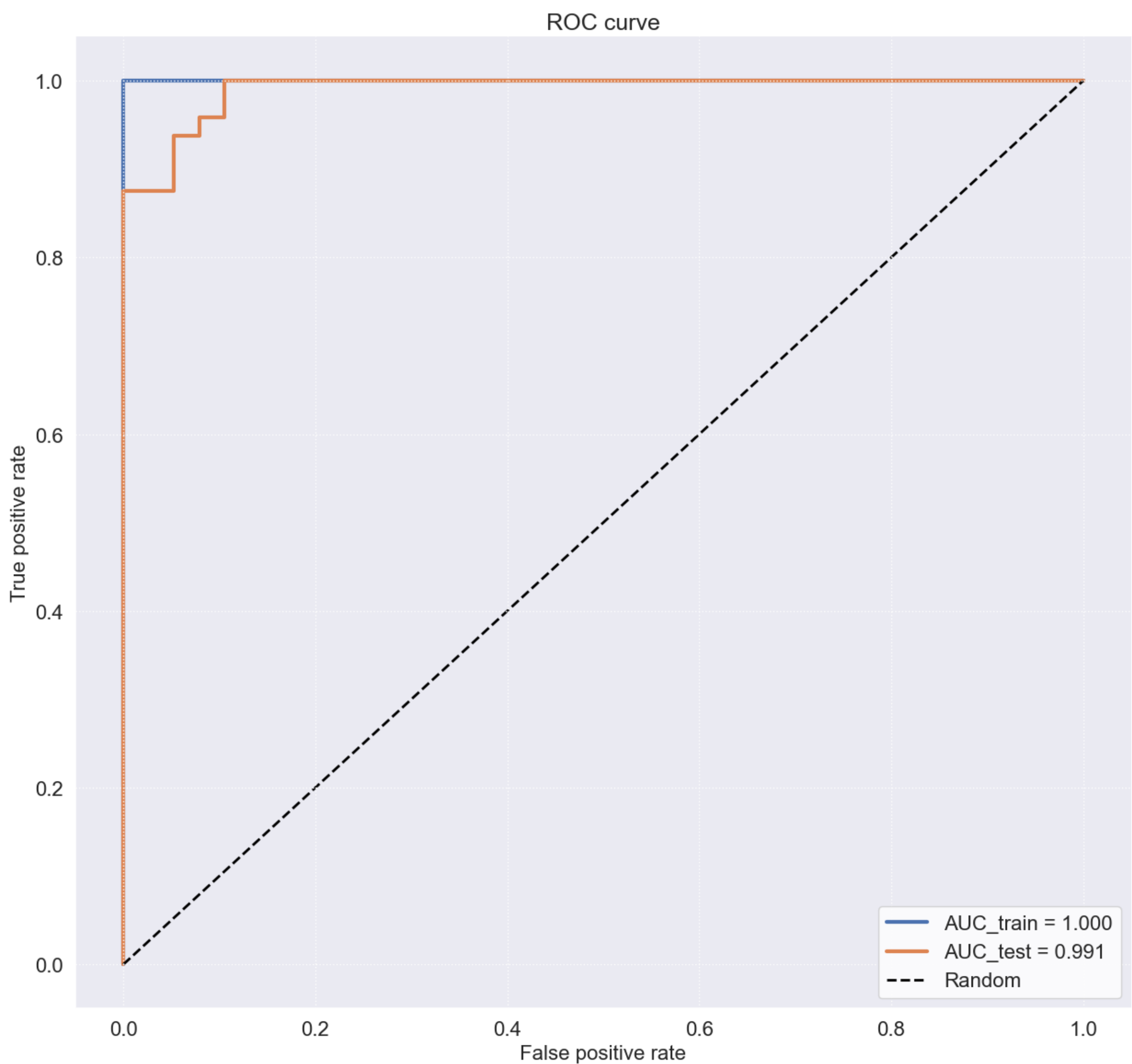
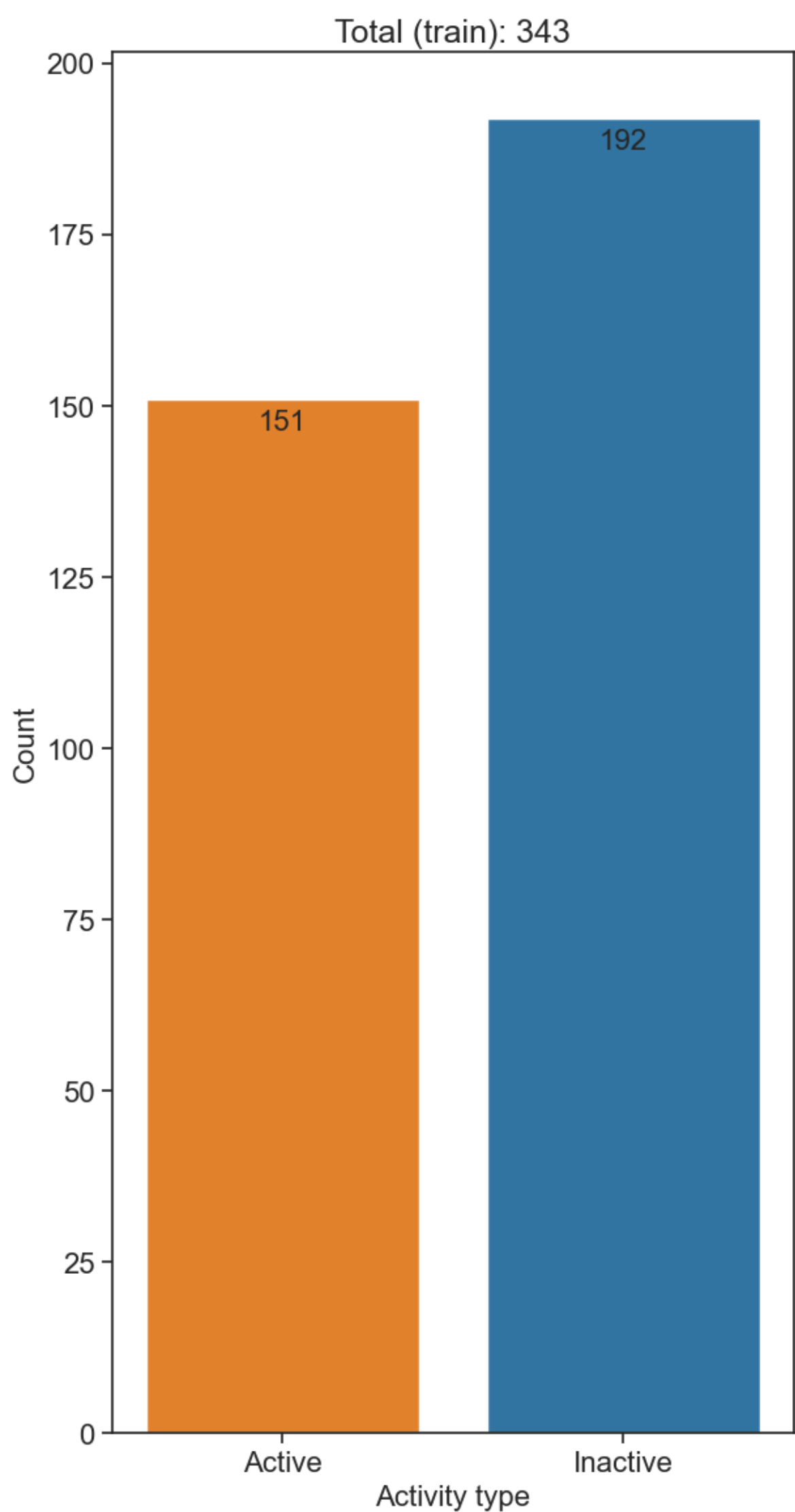
XGBoost Parameters	Value
alpha	1.5013
colsample_bytree	0.9146
gamma	0.4117
lambda	4.6871
learning_rate	0.3161
max_depth	10.0
min_child_weight	1.0
n_estimators	120.0
reg_alpha	0.2269
reg_lambda	0.8691
scale_pos_weight	1.6242
subsample	0.5342



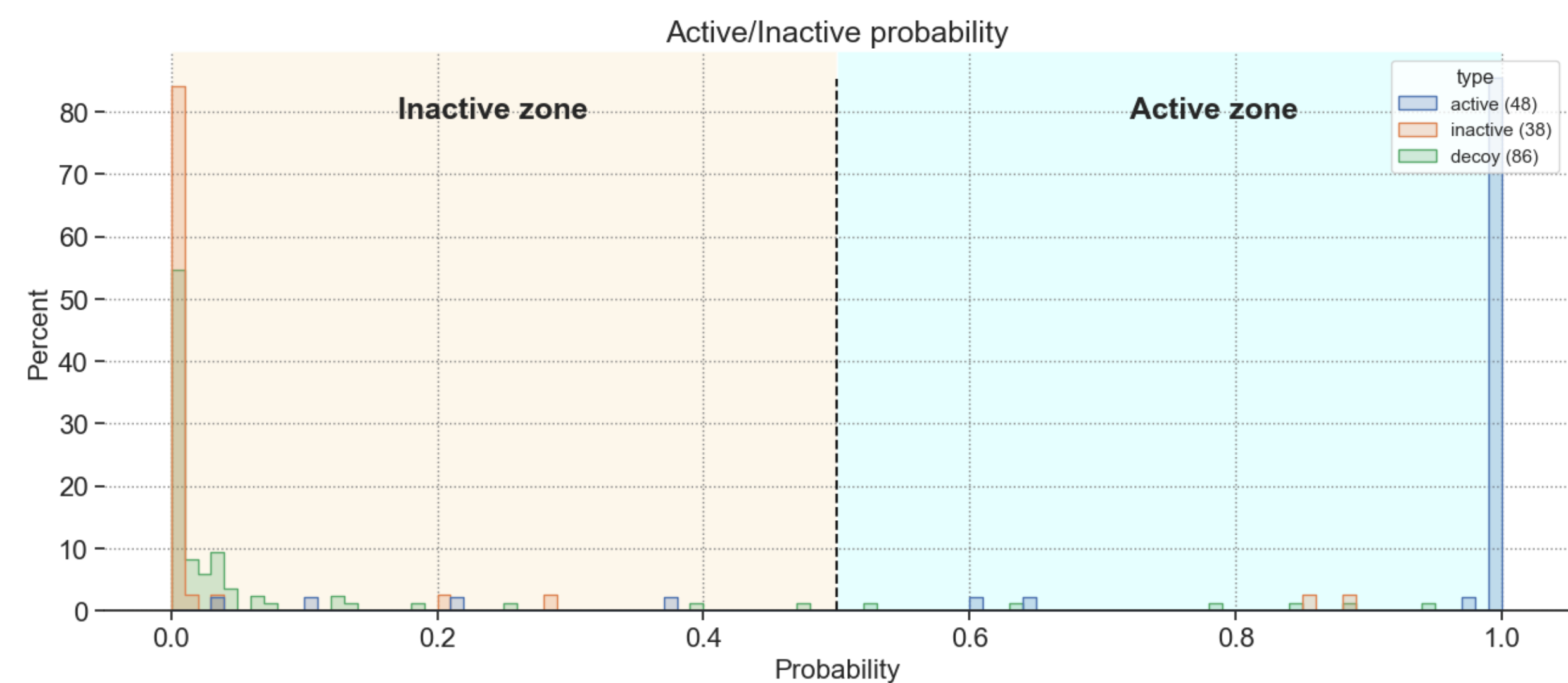
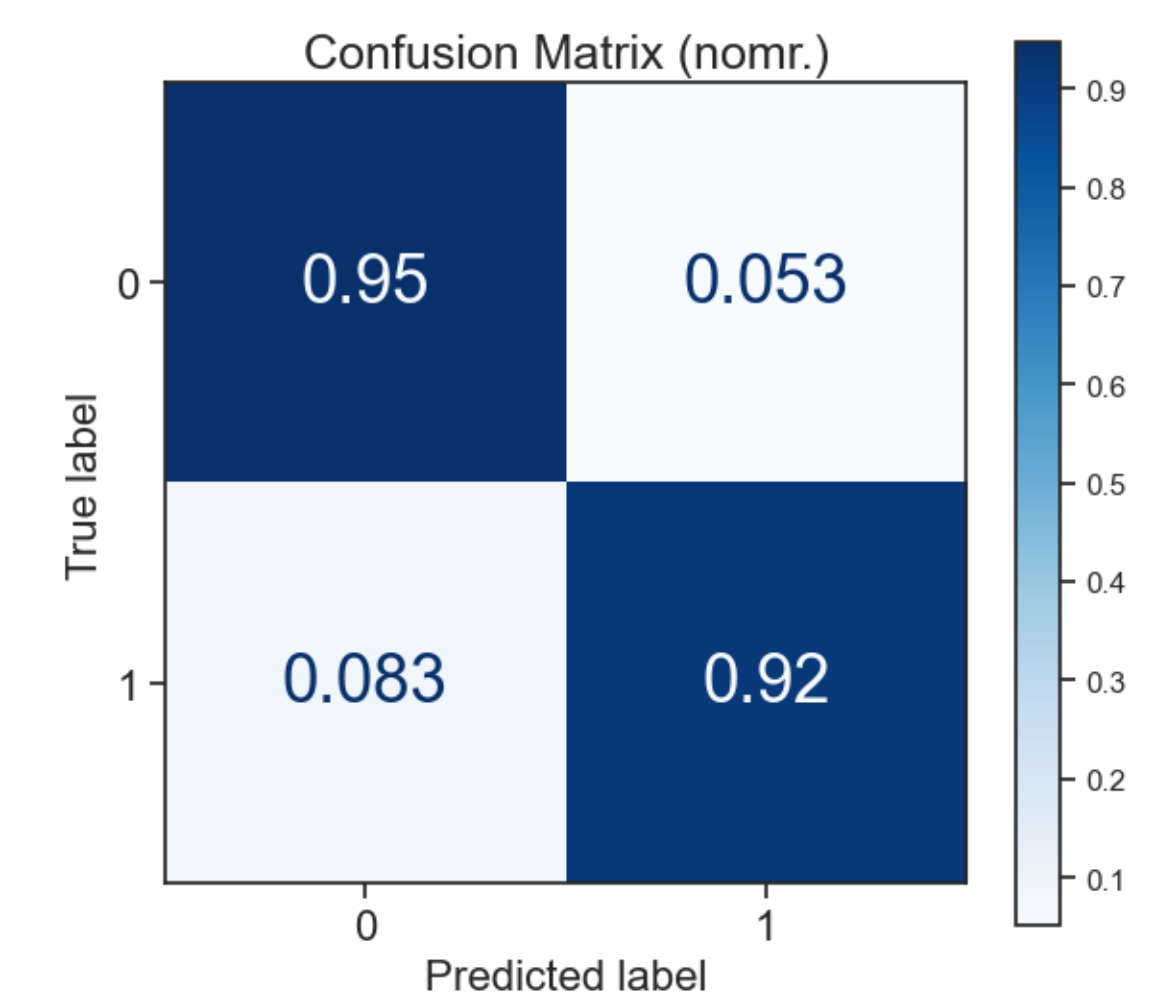
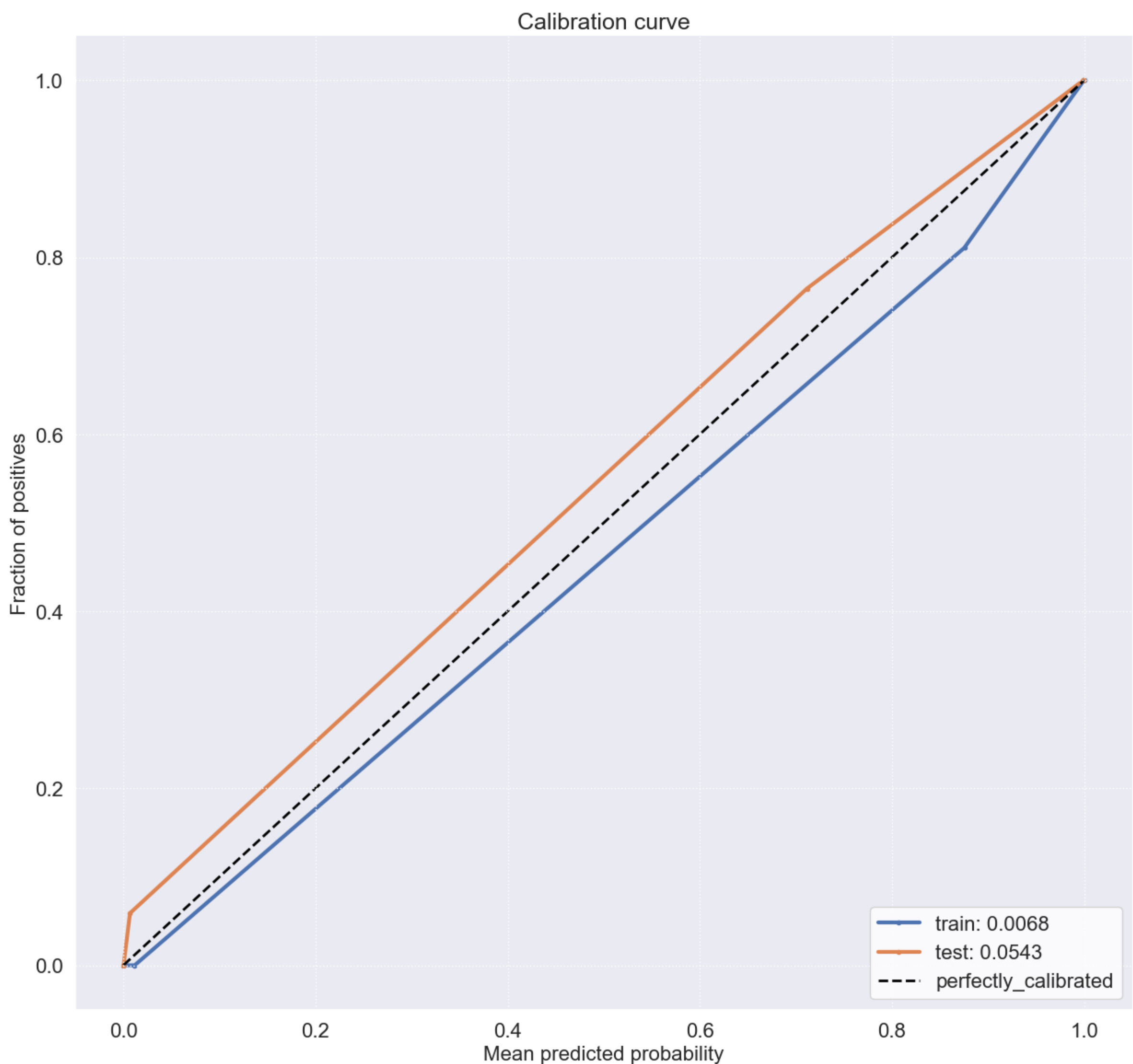
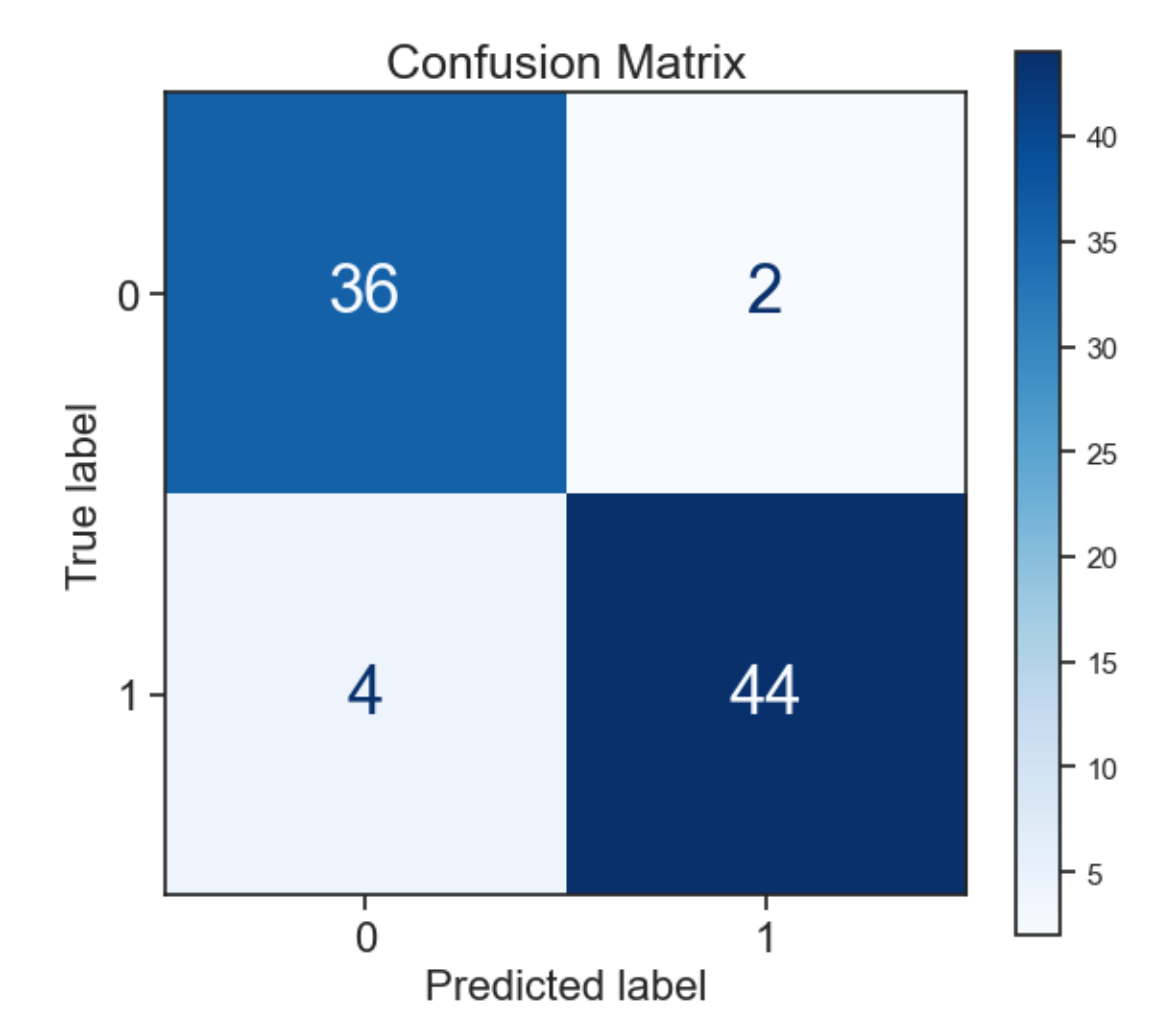
Metric	Train	Test
AUC	1.0	0.9896
accuracy	0.9971	0.9302
balanced accuracy	0.9967	0.9348
recall_(sens)	1.0	0.8958
specificity	0.9934	0.9737
precision	0.9948	0.9773
f1_score	0.9971	0.9305



Protein: P11473 - metric: f1



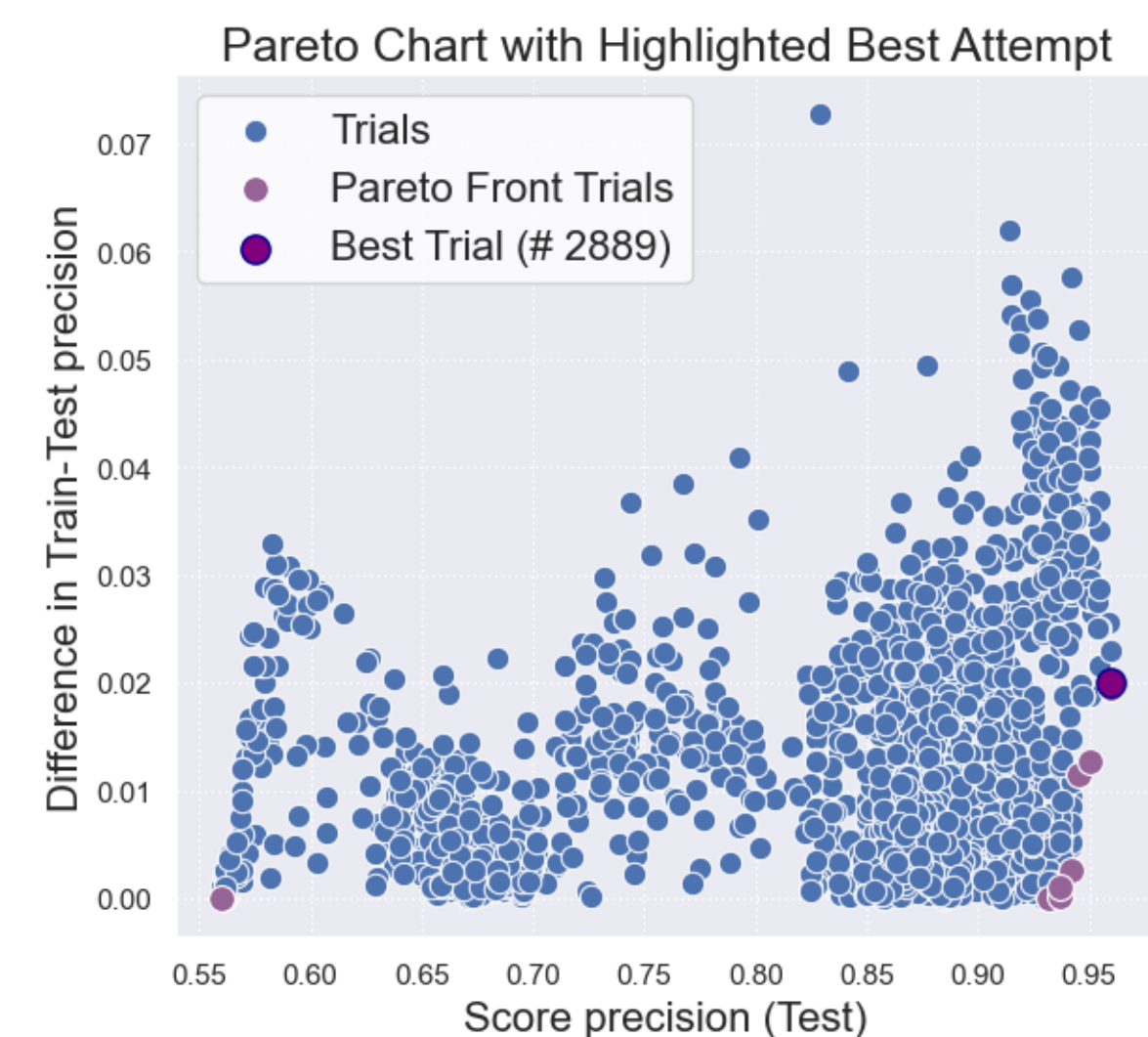
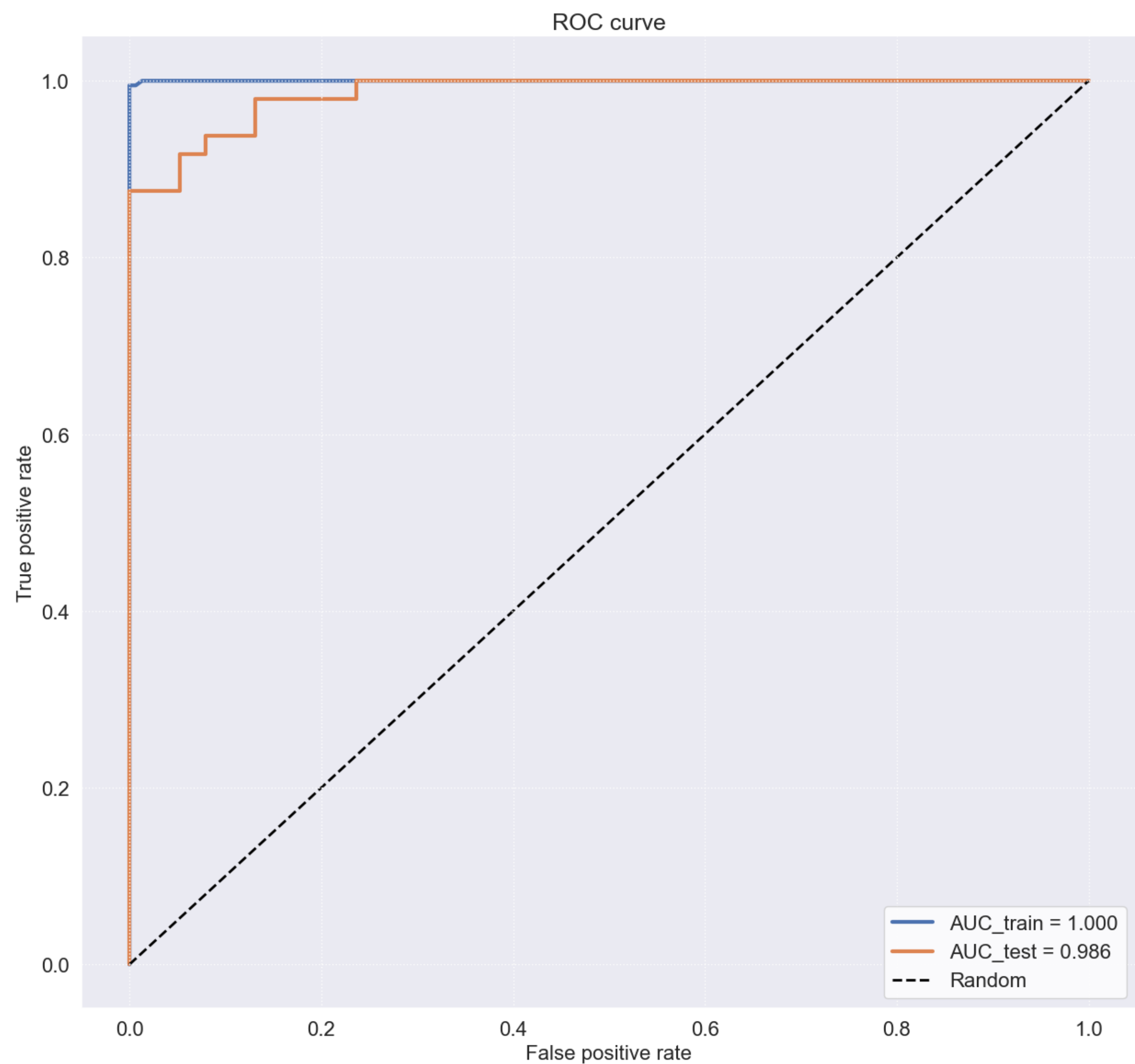
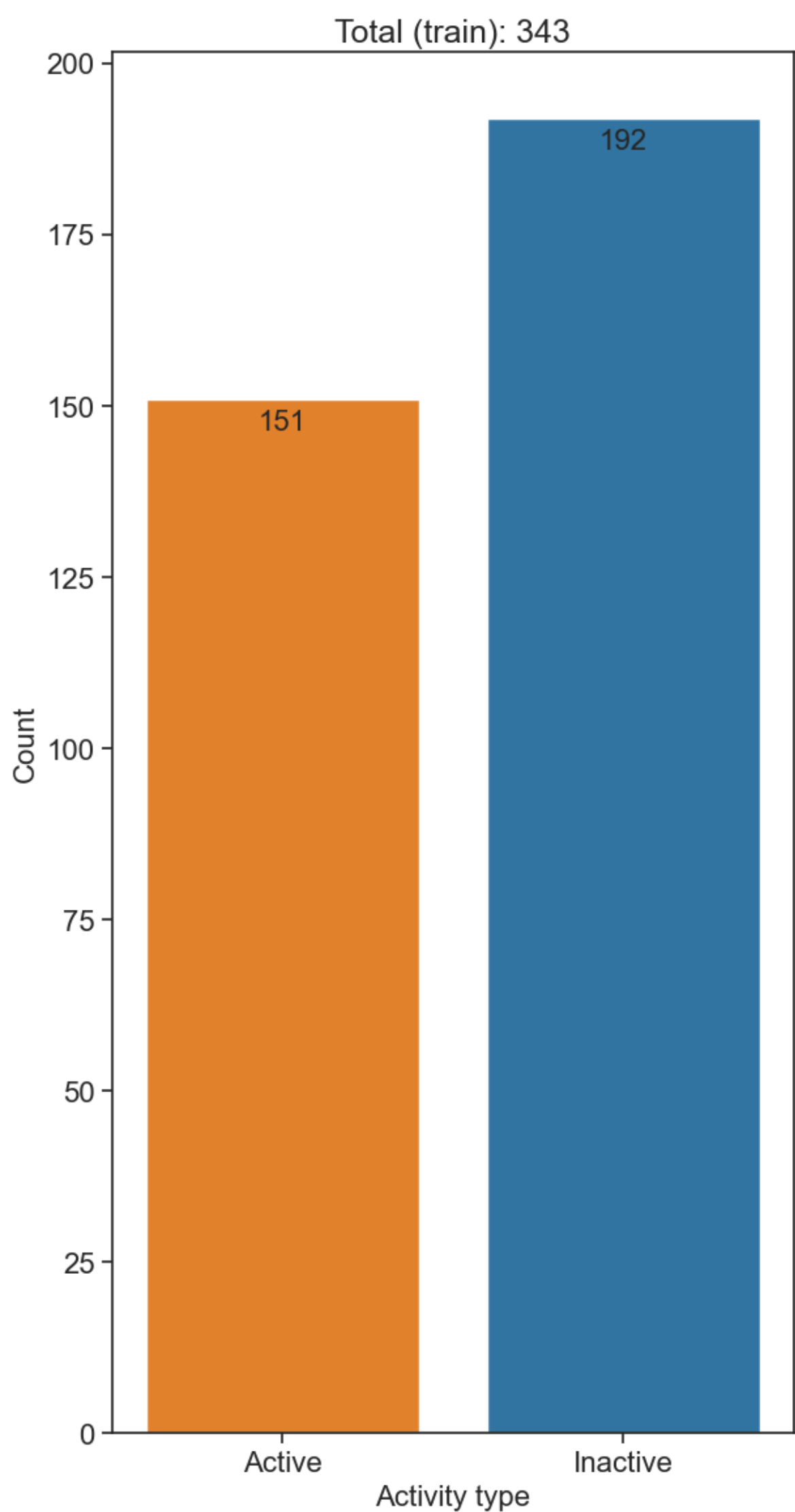
XGBoost Parameters	Value
alpha	3.7164
colsample_bytree	0.5453
gamma	0.5467
lambda	1.9391
learning_rate	0.2316
max_depth	5.0
min_child_weight	1.0
n_estimators	211.0
reg_alpha	0.2948
reg_lambda	0.2172
scale_pos_weight	21.1709
subsample	0.6911



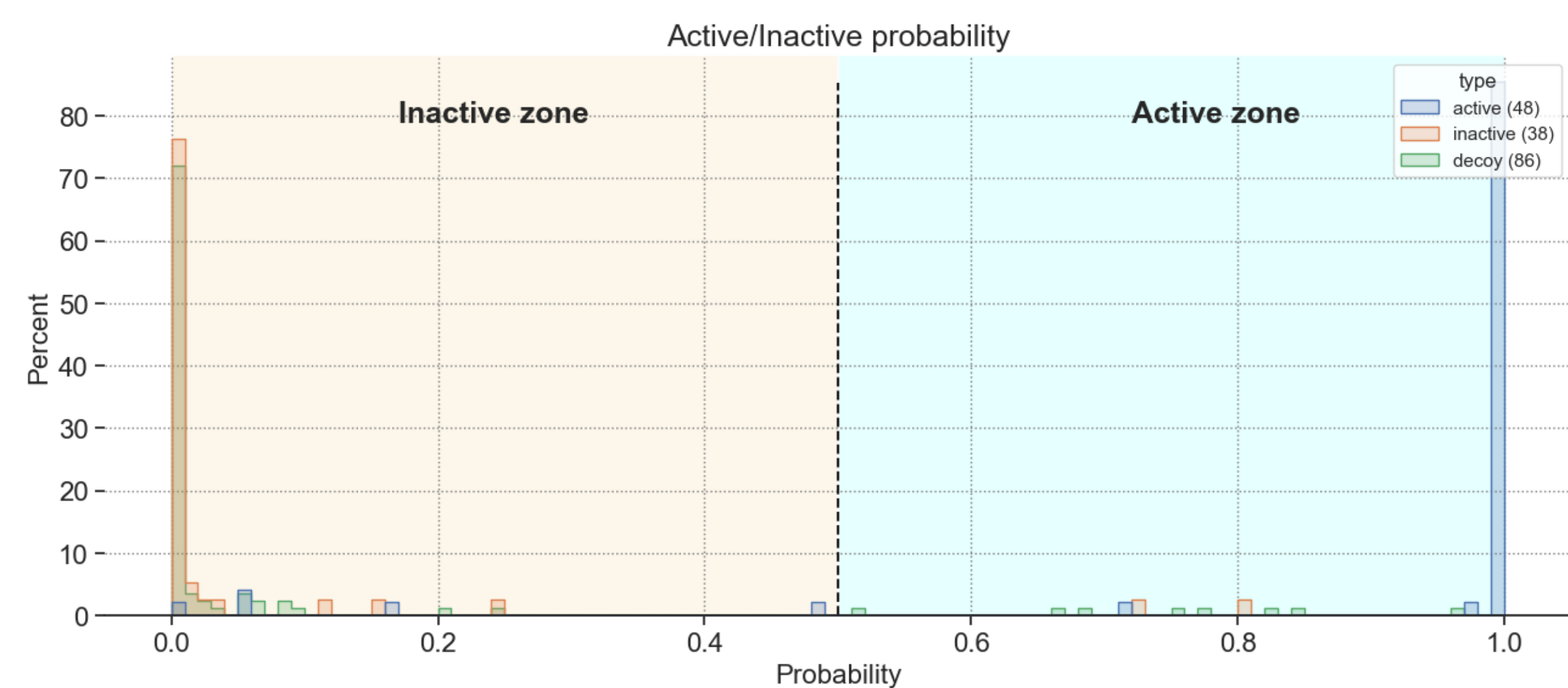
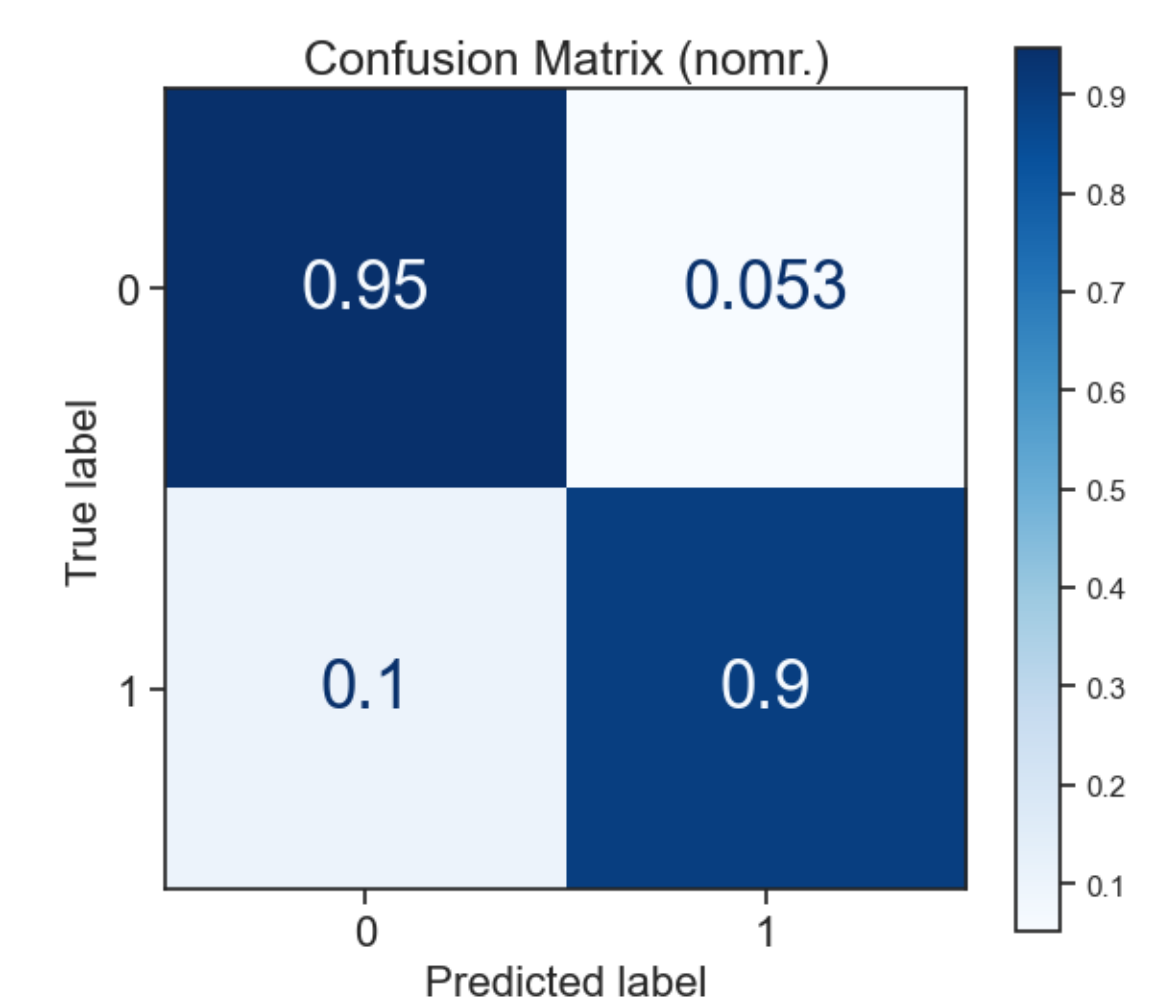
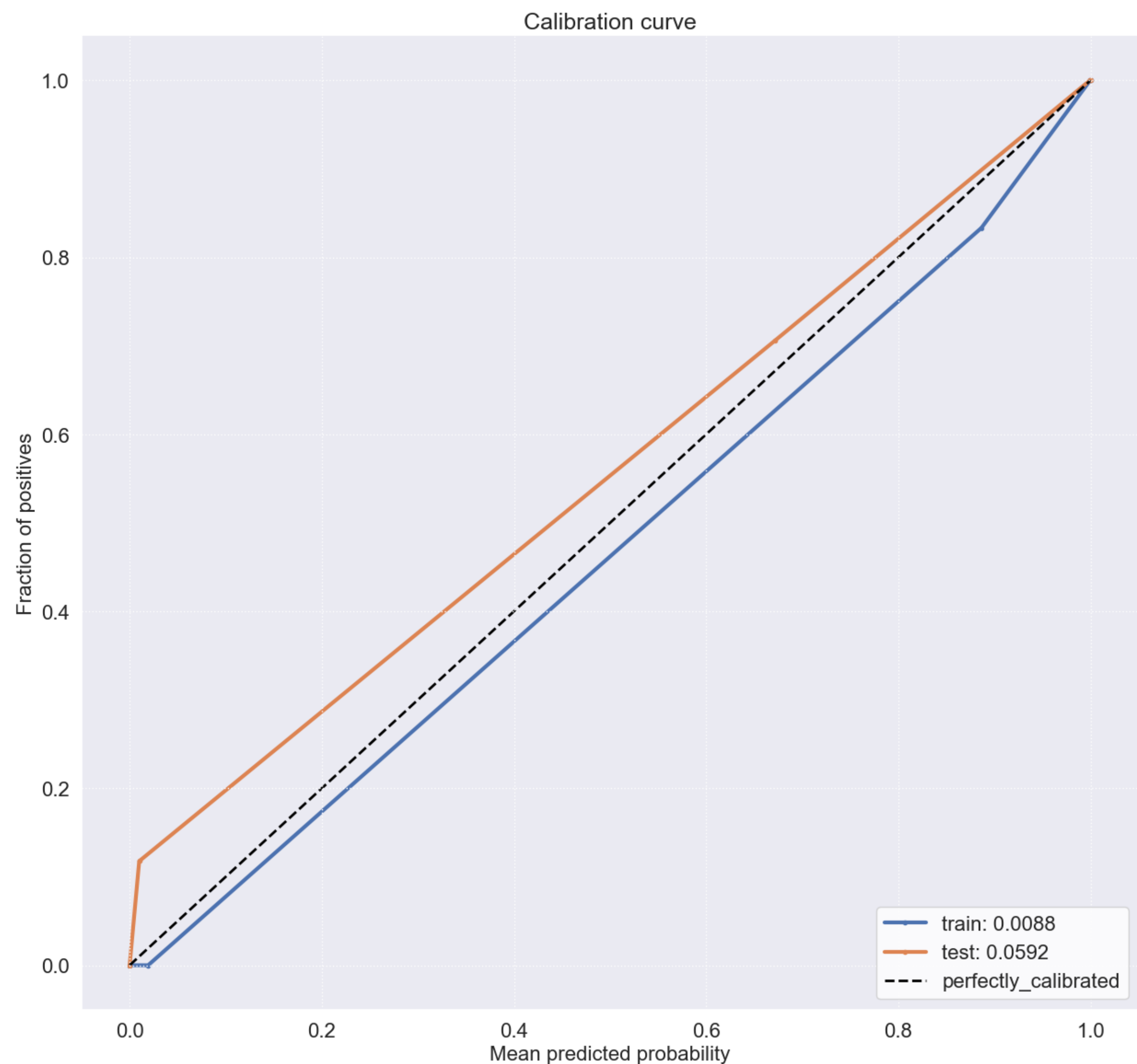
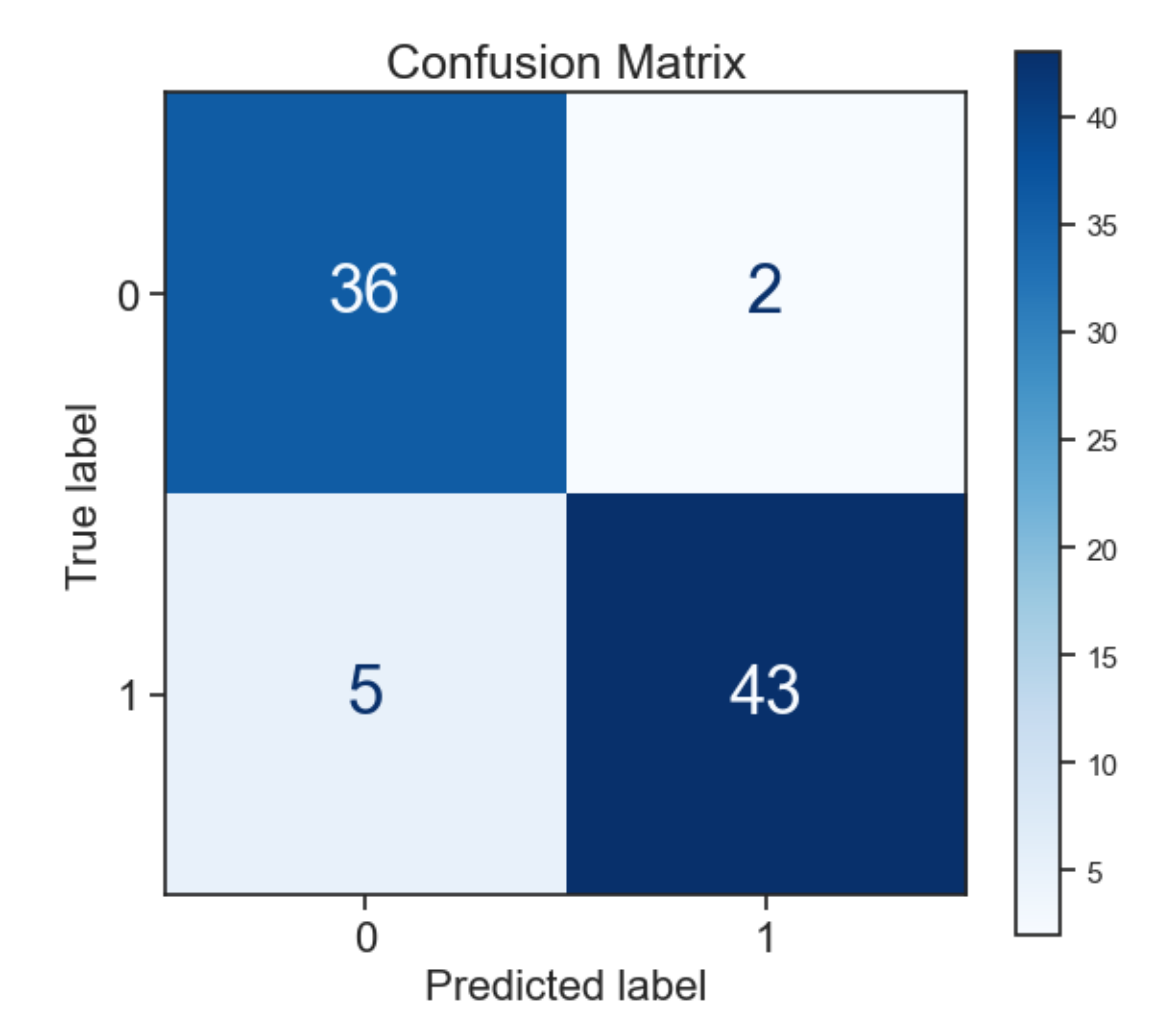
Metric	Train	Test
AUC	1.0	0.9907
accuracy	0.9942	0.9302
balanced accuracy	0.9934	0.932
recall_(sens)	1.0	0.9167
specificity	0.9868	0.9474
precision	0.9897	0.9565
f1_score	0.9942	0.9304



Protein: P11473 - metric: precision



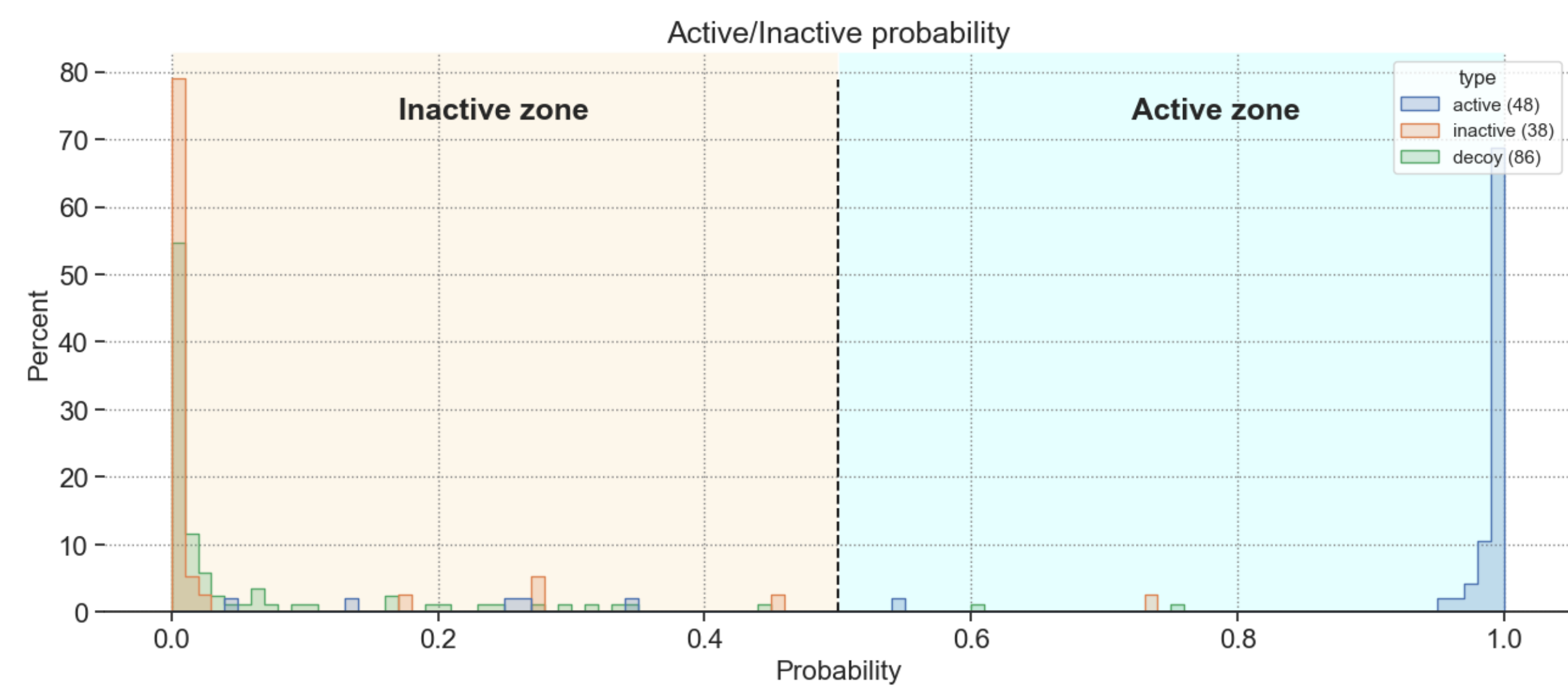
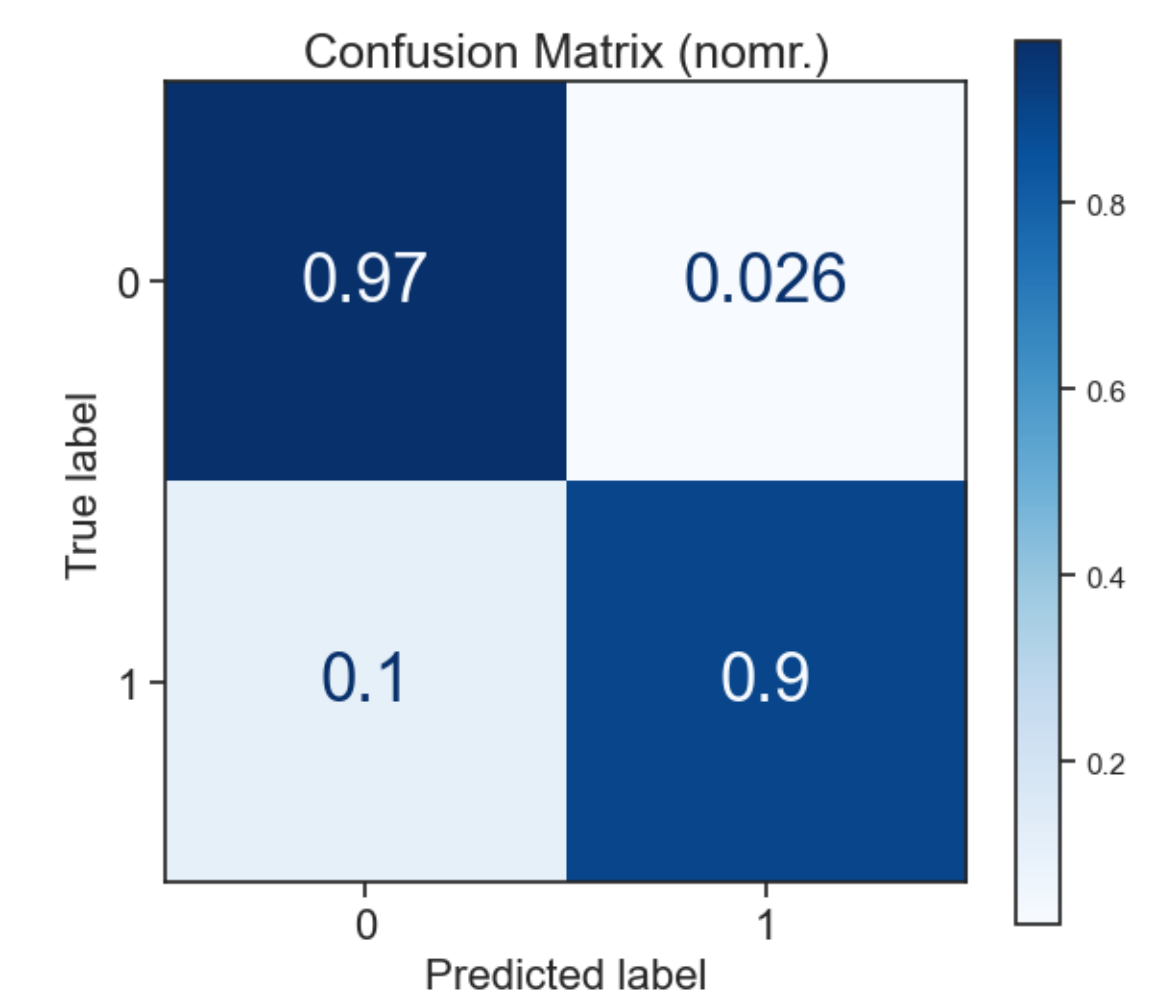
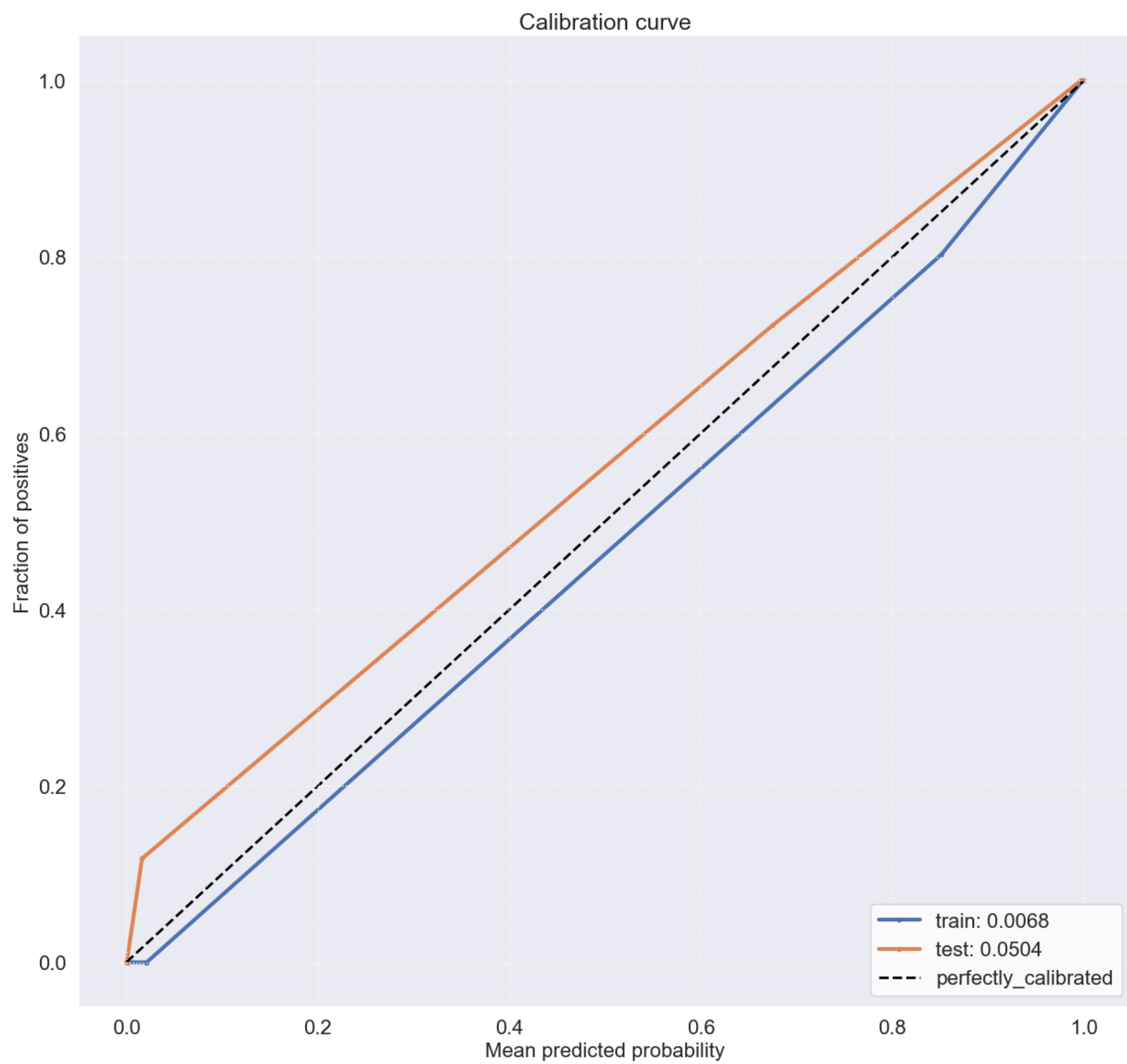
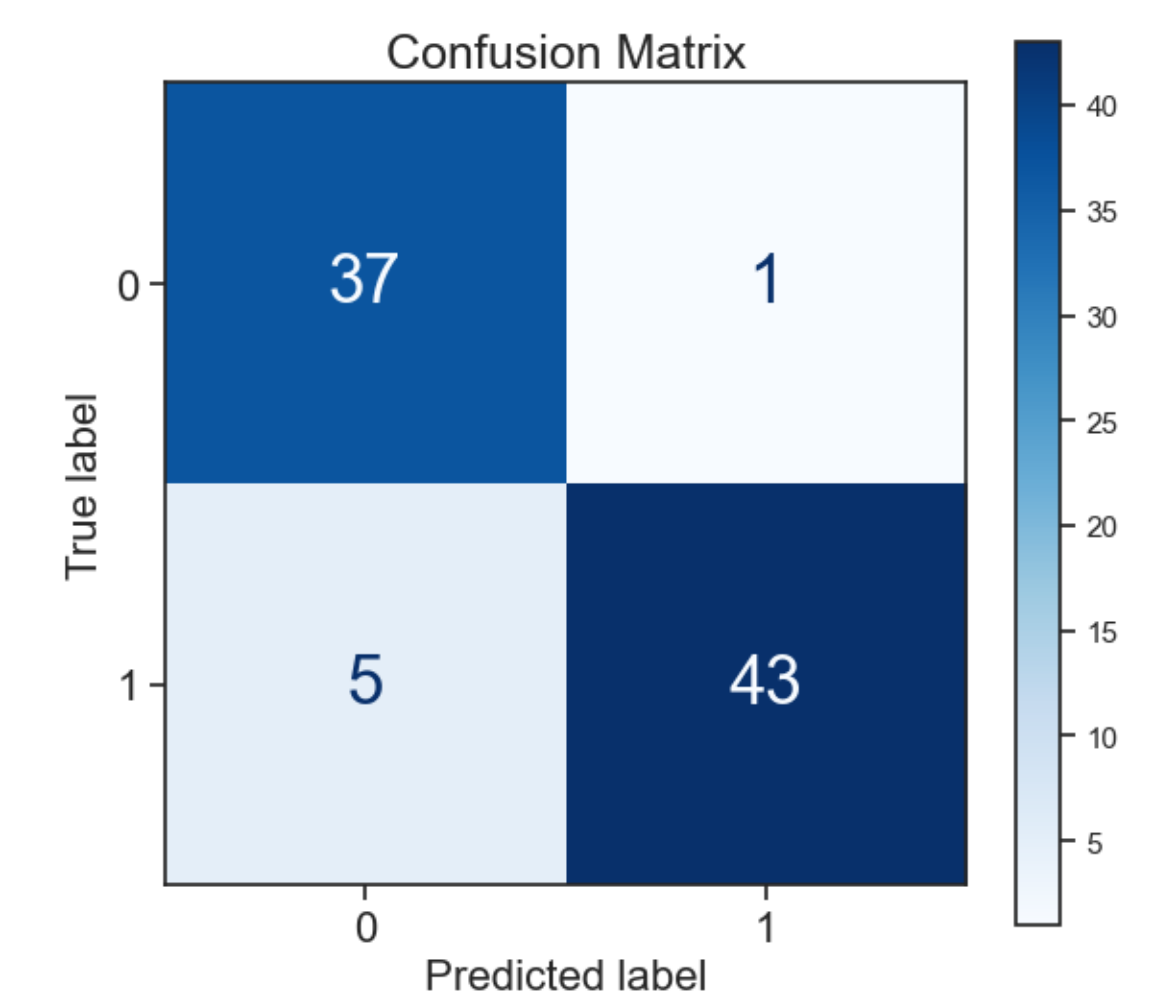
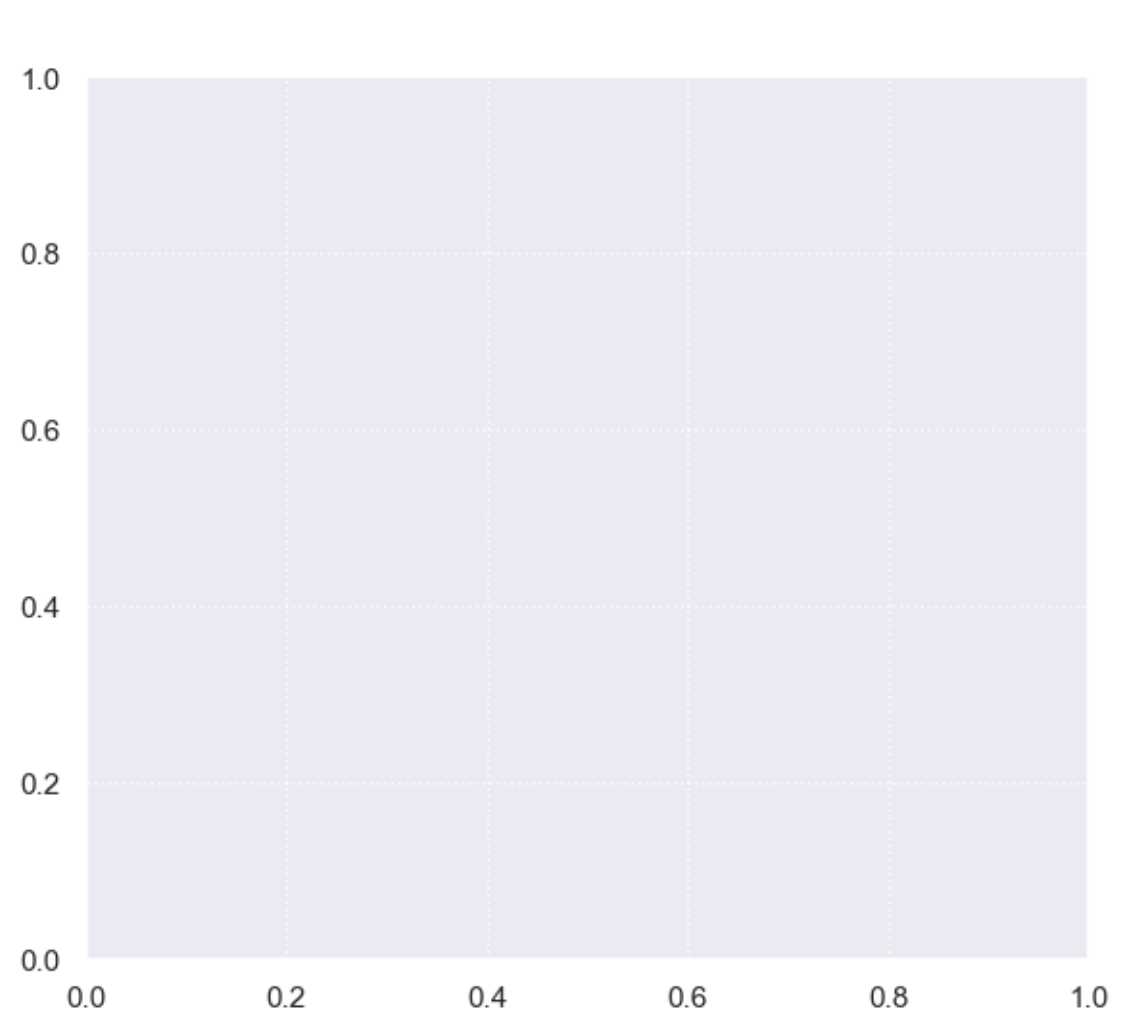
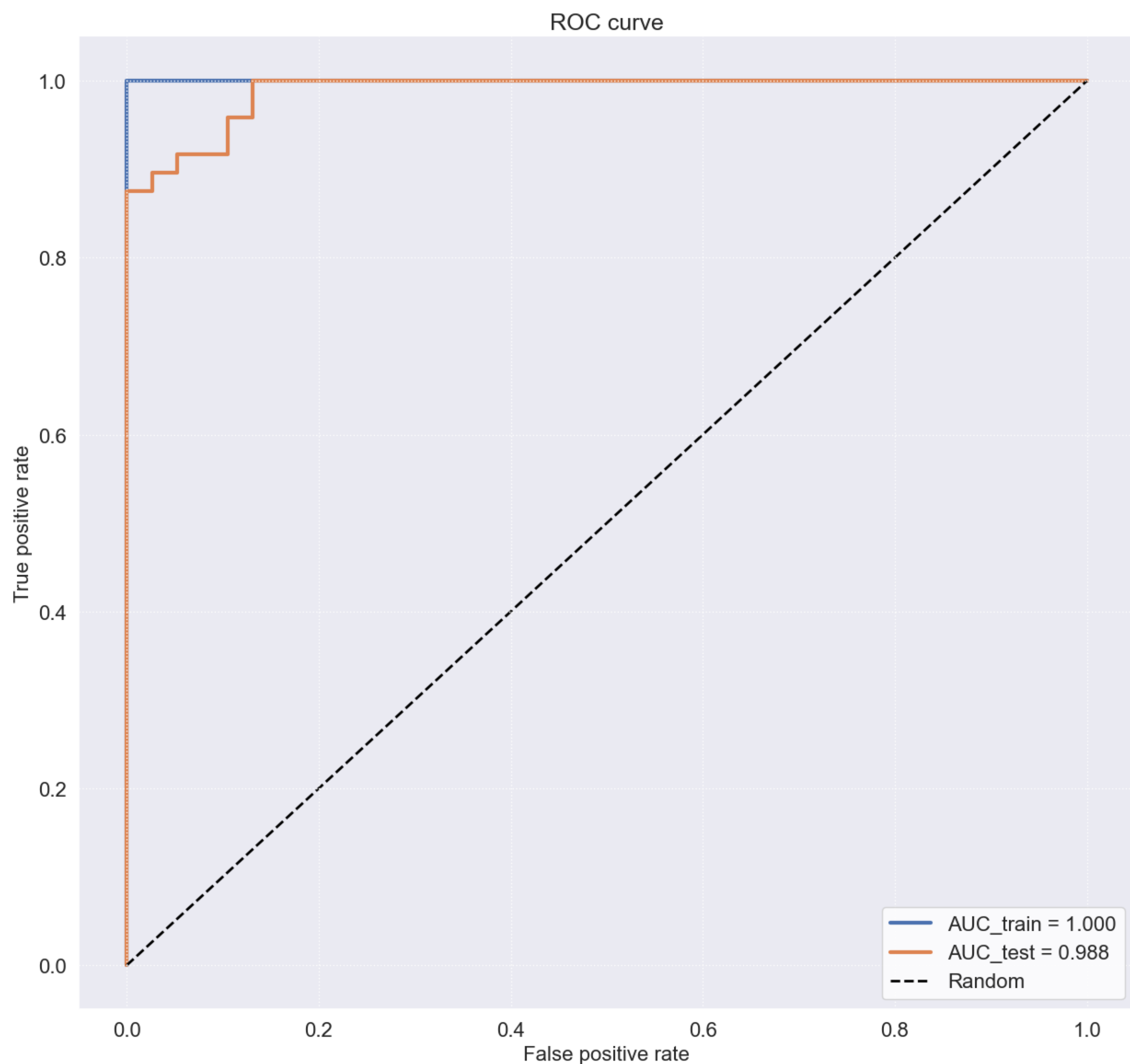
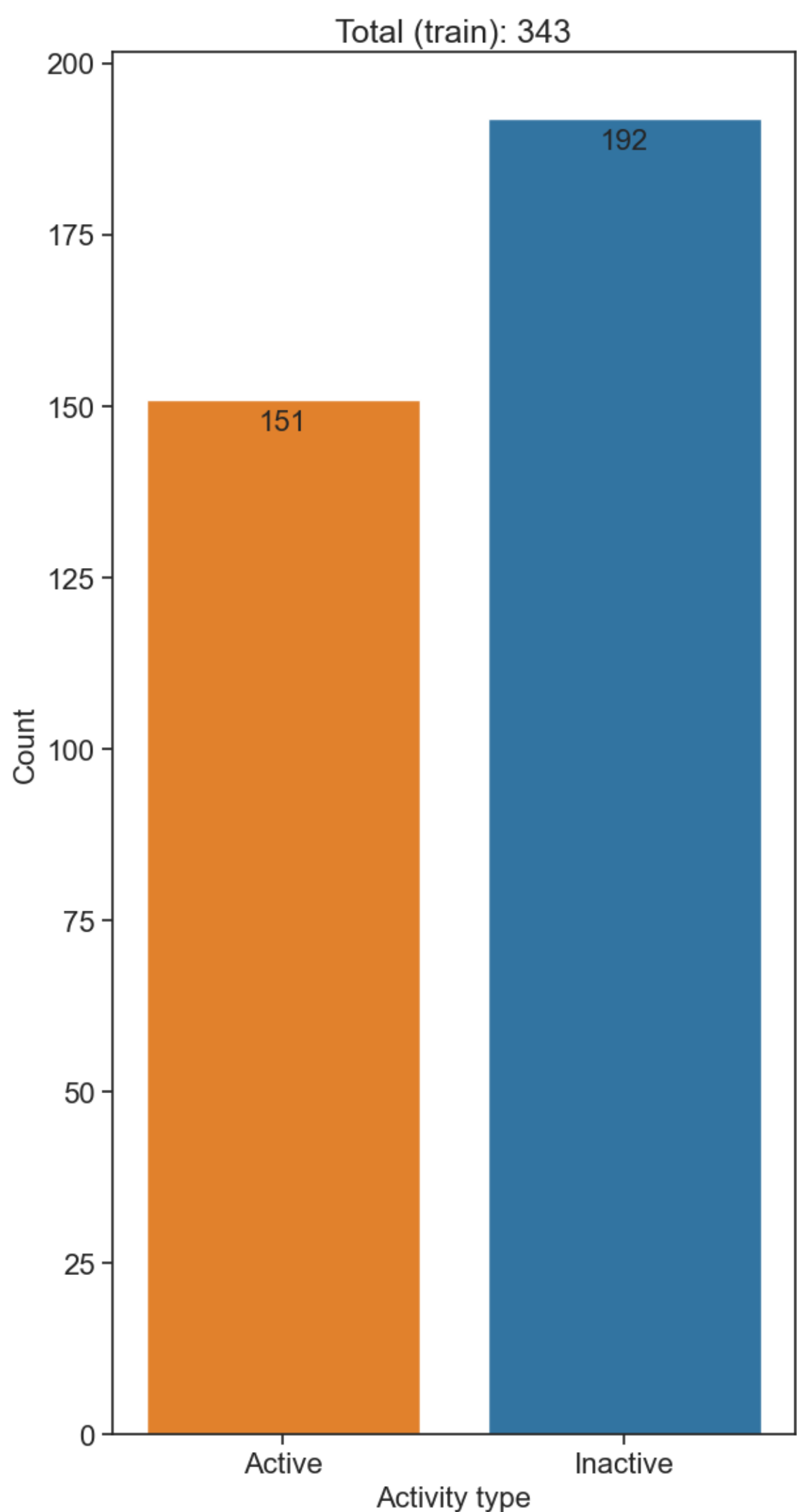
XGBoost Parameters	Value
alpha	3.7396
colsample_bytree	0.7535
gamma	0.4112
lambda	2.3428
learning_rate	0.9636
max_depth	8.0
min_child_weight	2.0
n_estimators	331.0
reg_alpha	0.6789
reg_lambda	0.2579
scale_pos_weight	4.5466
subsample	0.634



Metric	Train	Test
AUC	0.9999	0.9857
accuracy	0.9883	0.9186
balanced accuracy	0.9868	0.9216
recall_(sens)	1.0	0.8958
specificity	0.9735	0.9474
precision	0.9796	0.9556
f1_score	0.9883	0.9188



Protein: P11473 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	1.0	0.9885
accuracy	0.9883	0.9302
balanced accuracy	0.9868	0.9348
recall_(sens)	1.0	0.8958
specificity	0.9735	0.9737
precision	0.9796	0.9773
f1_score	0.9883	0.9305