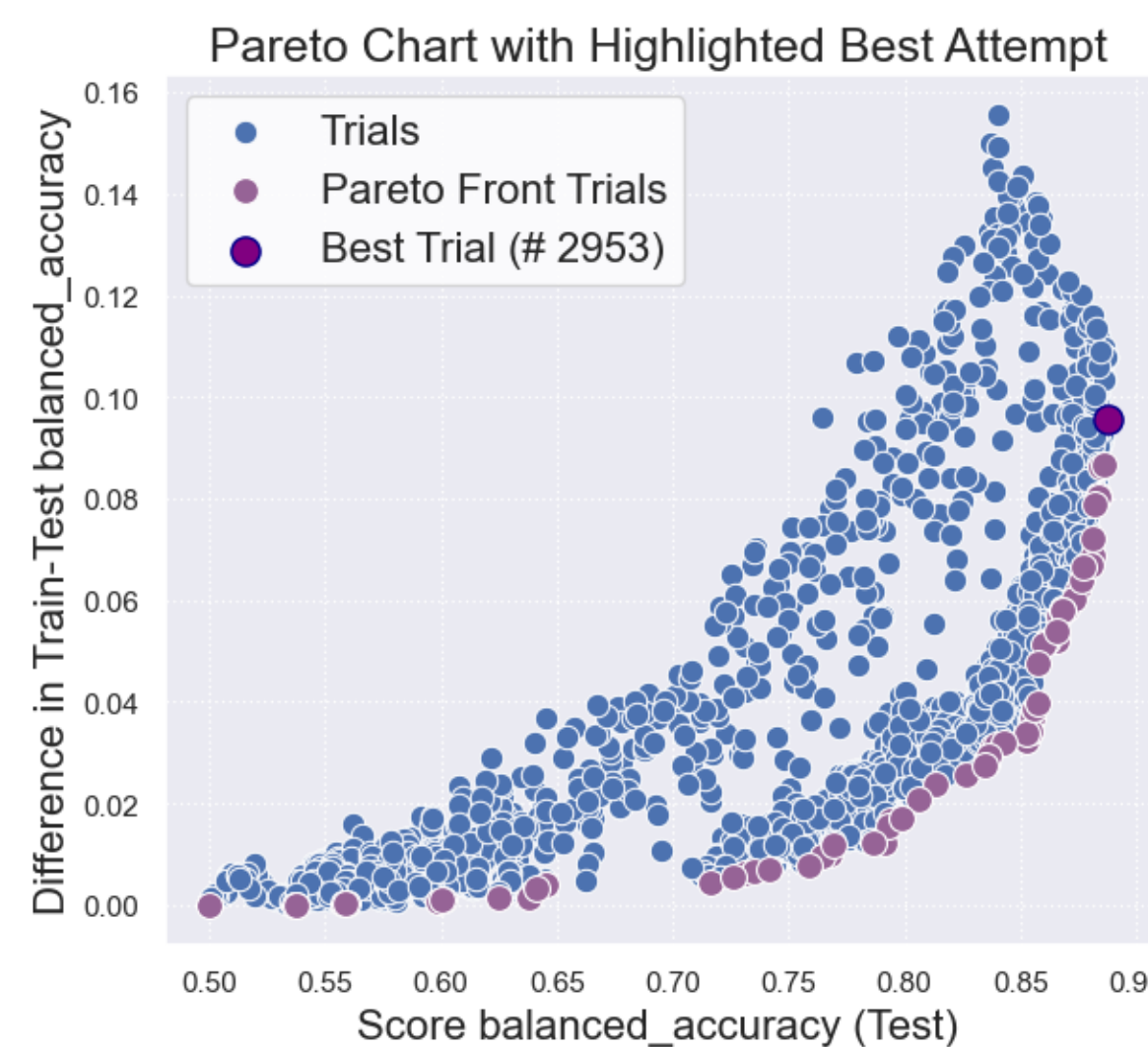
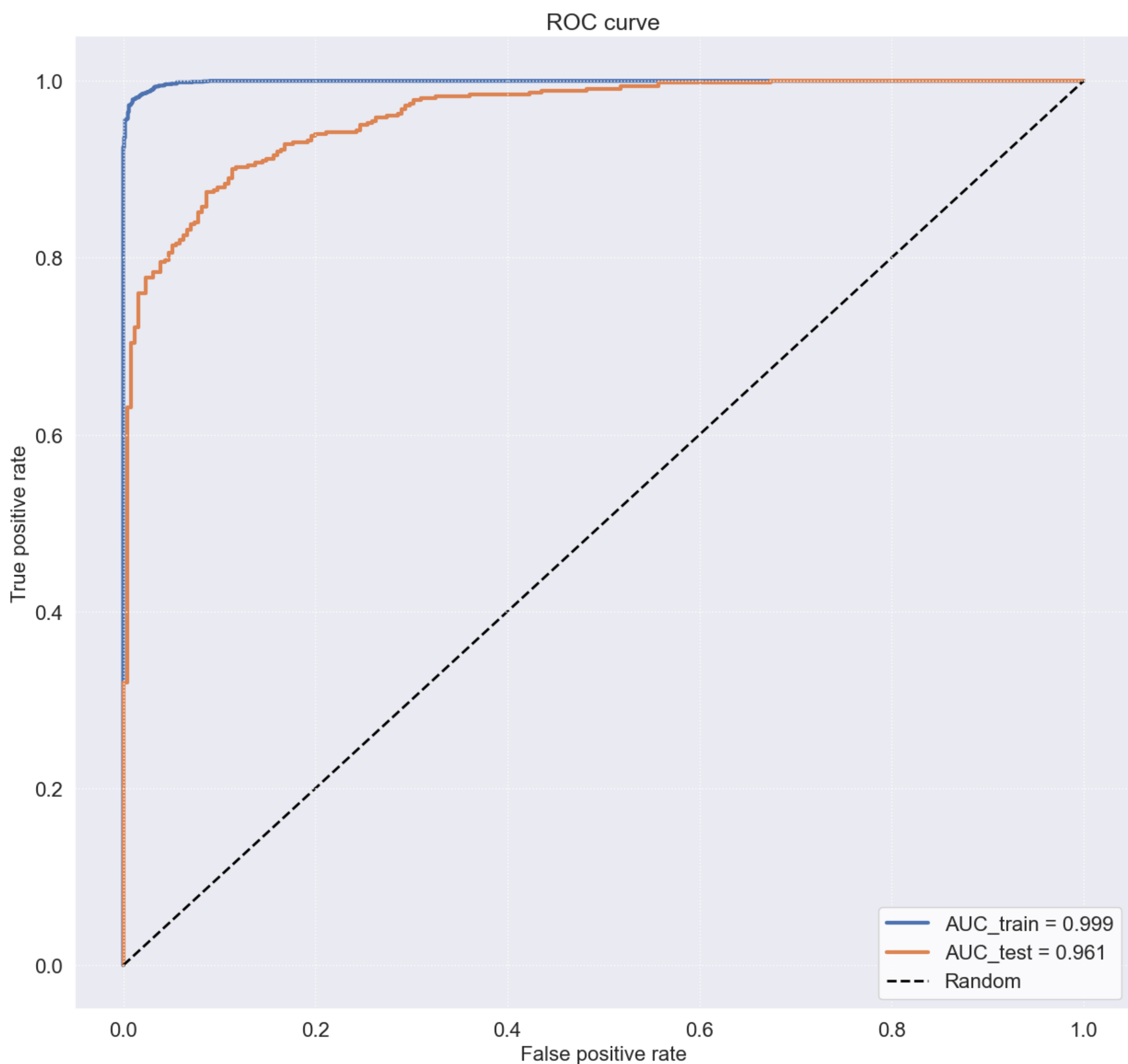
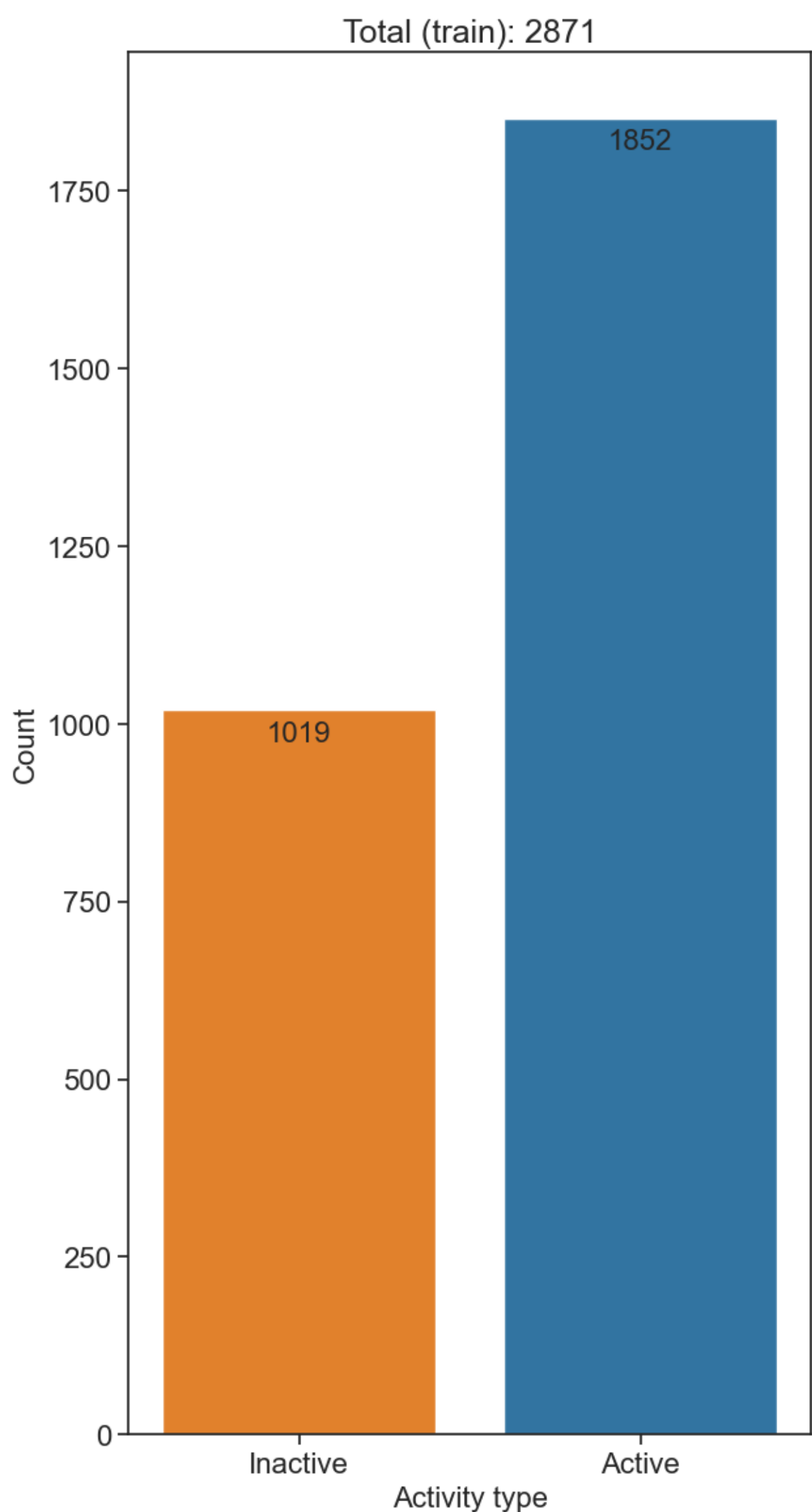
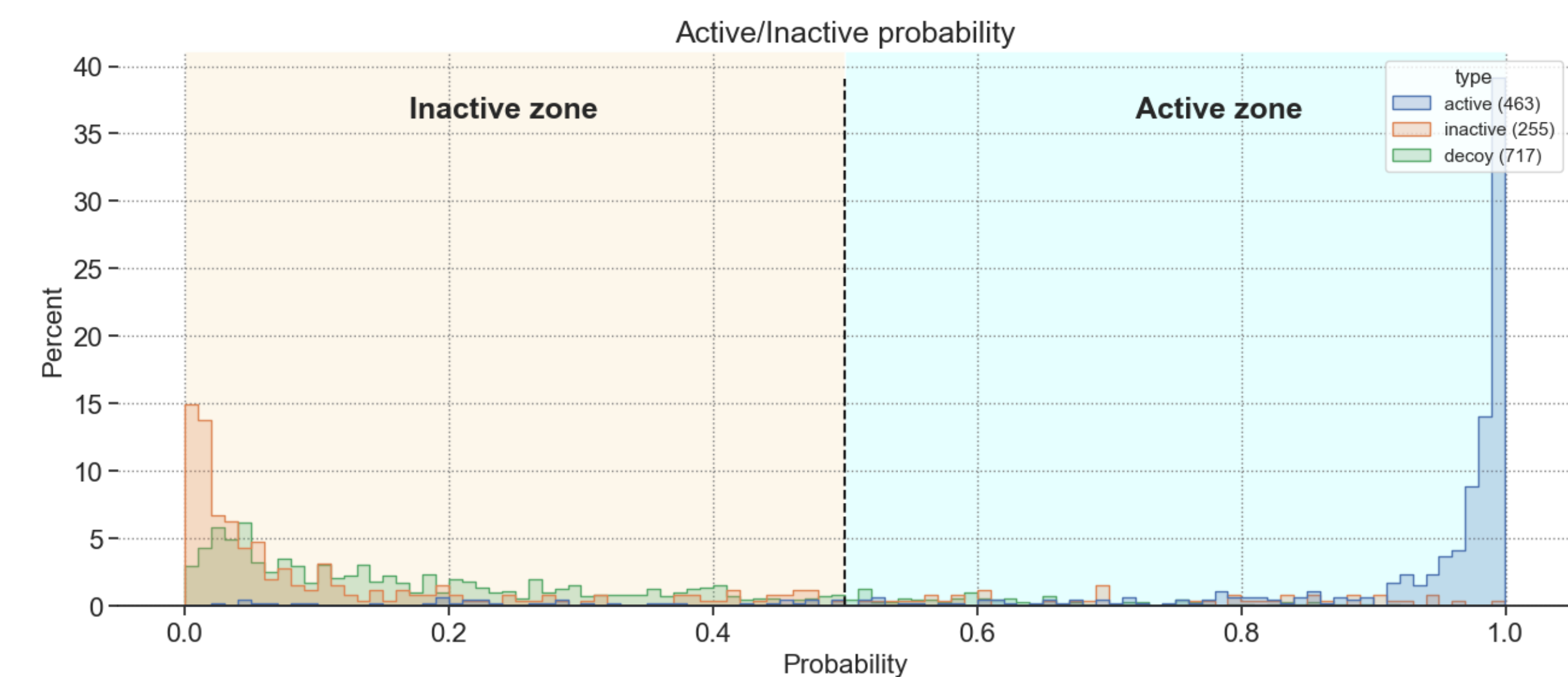
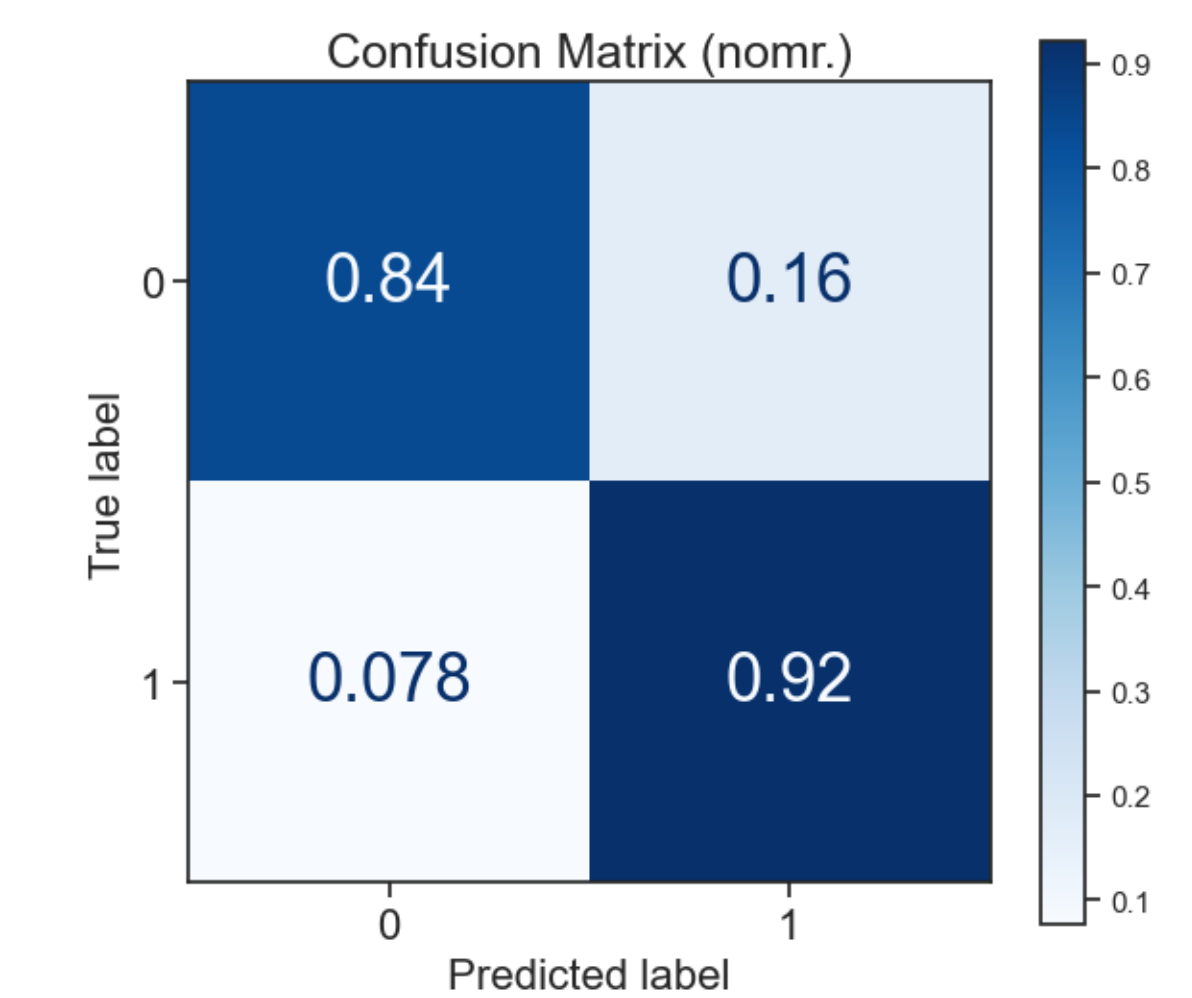
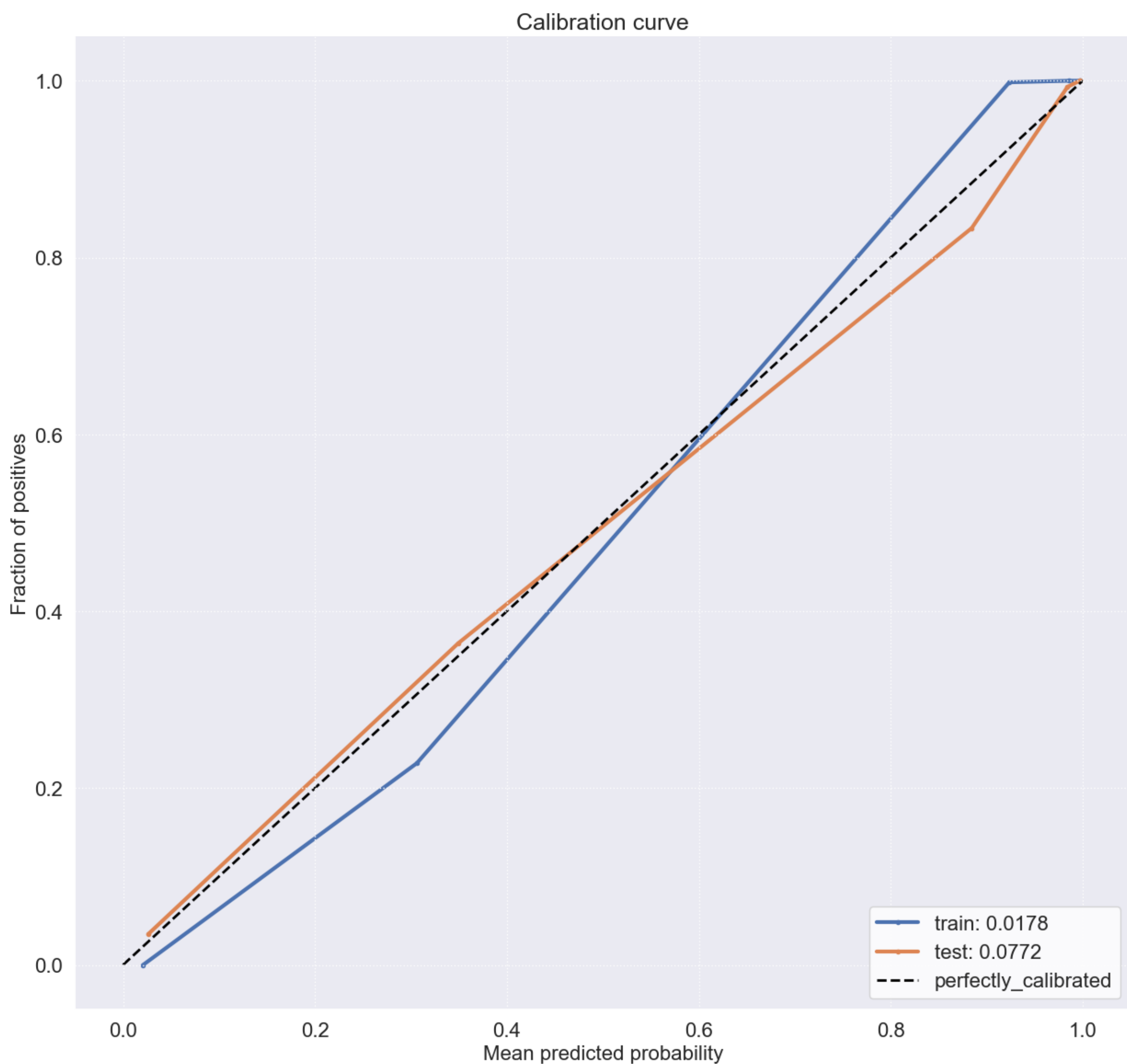
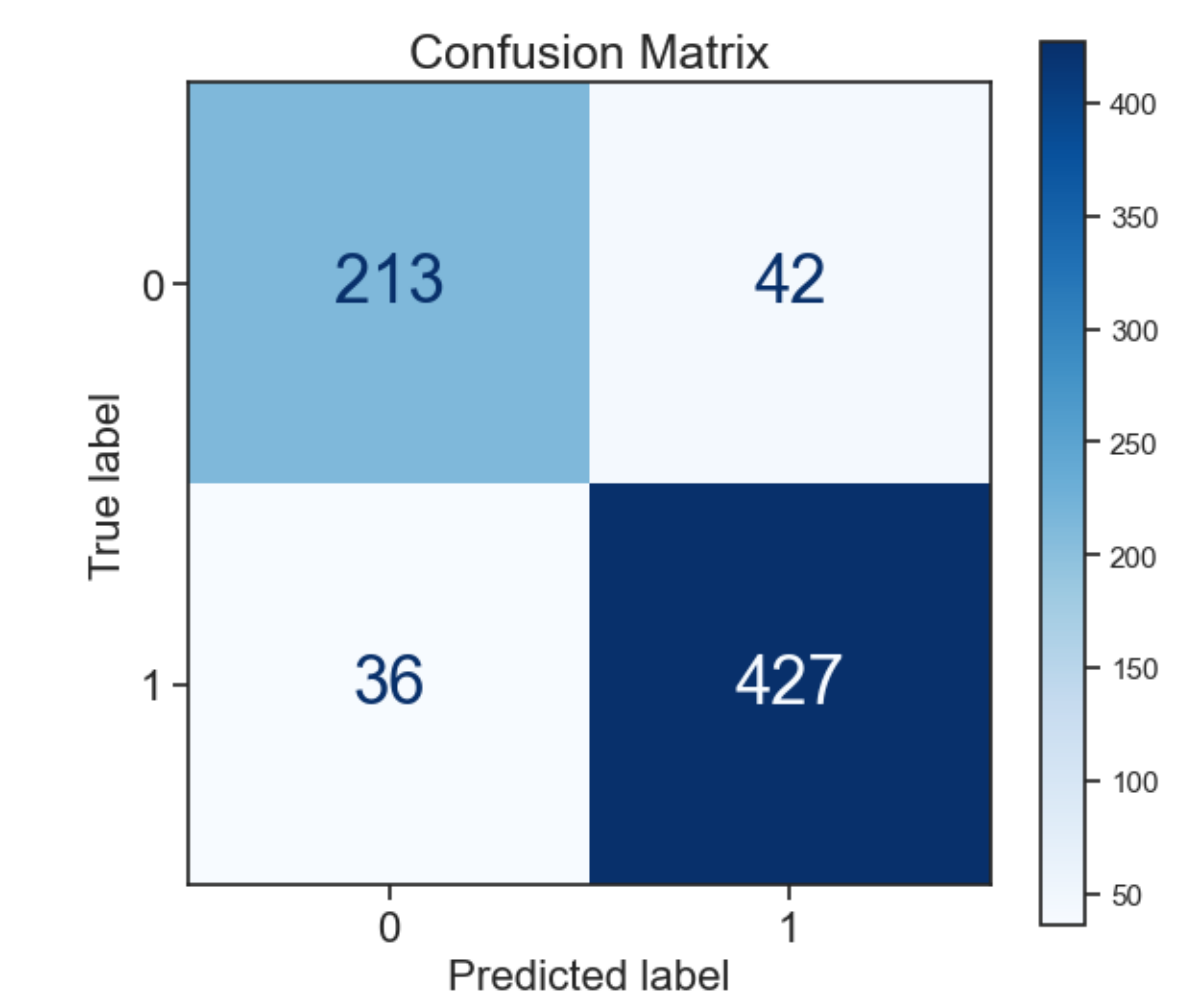


Protein: P29274 - metric: balanced_accuracy

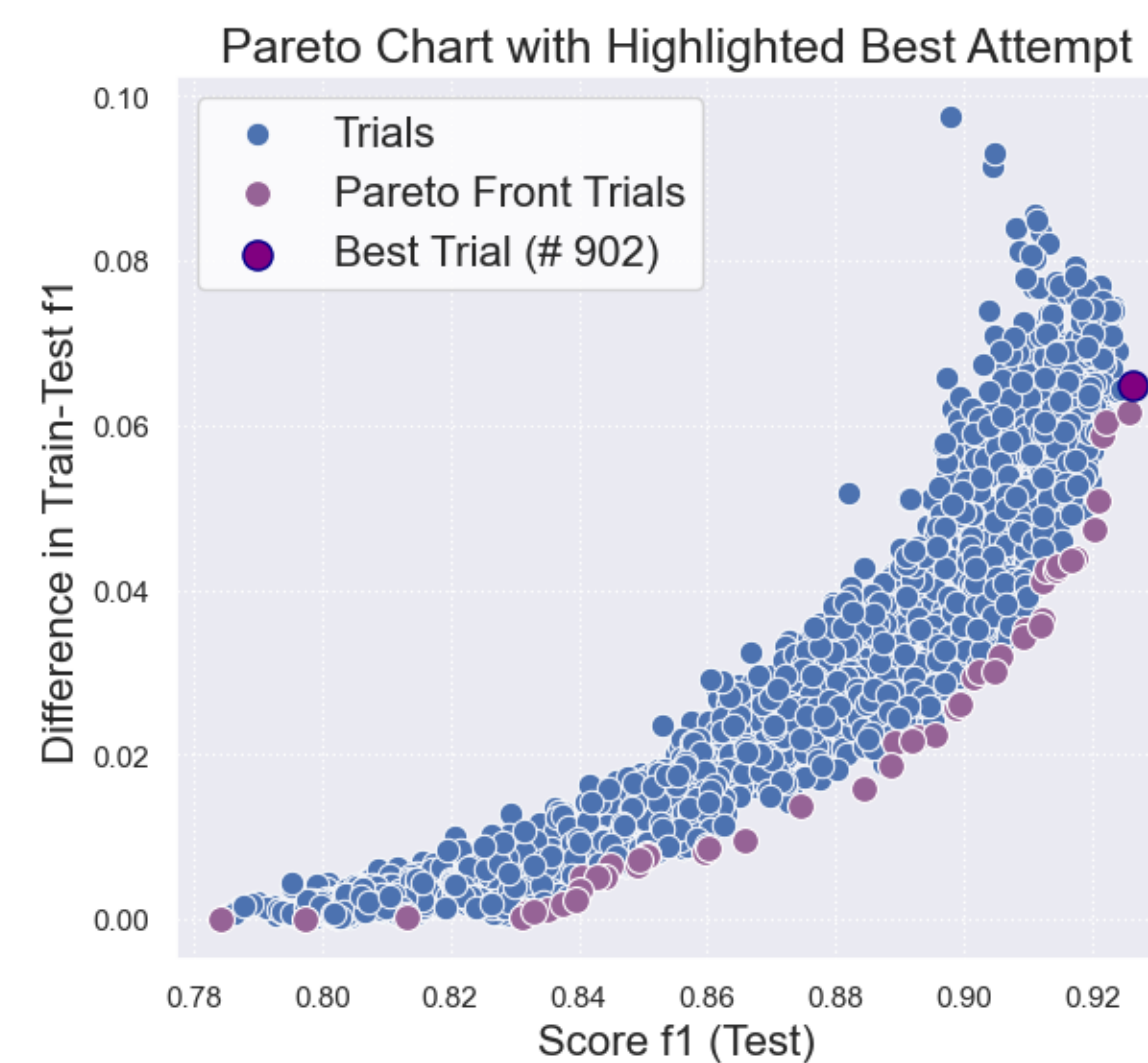
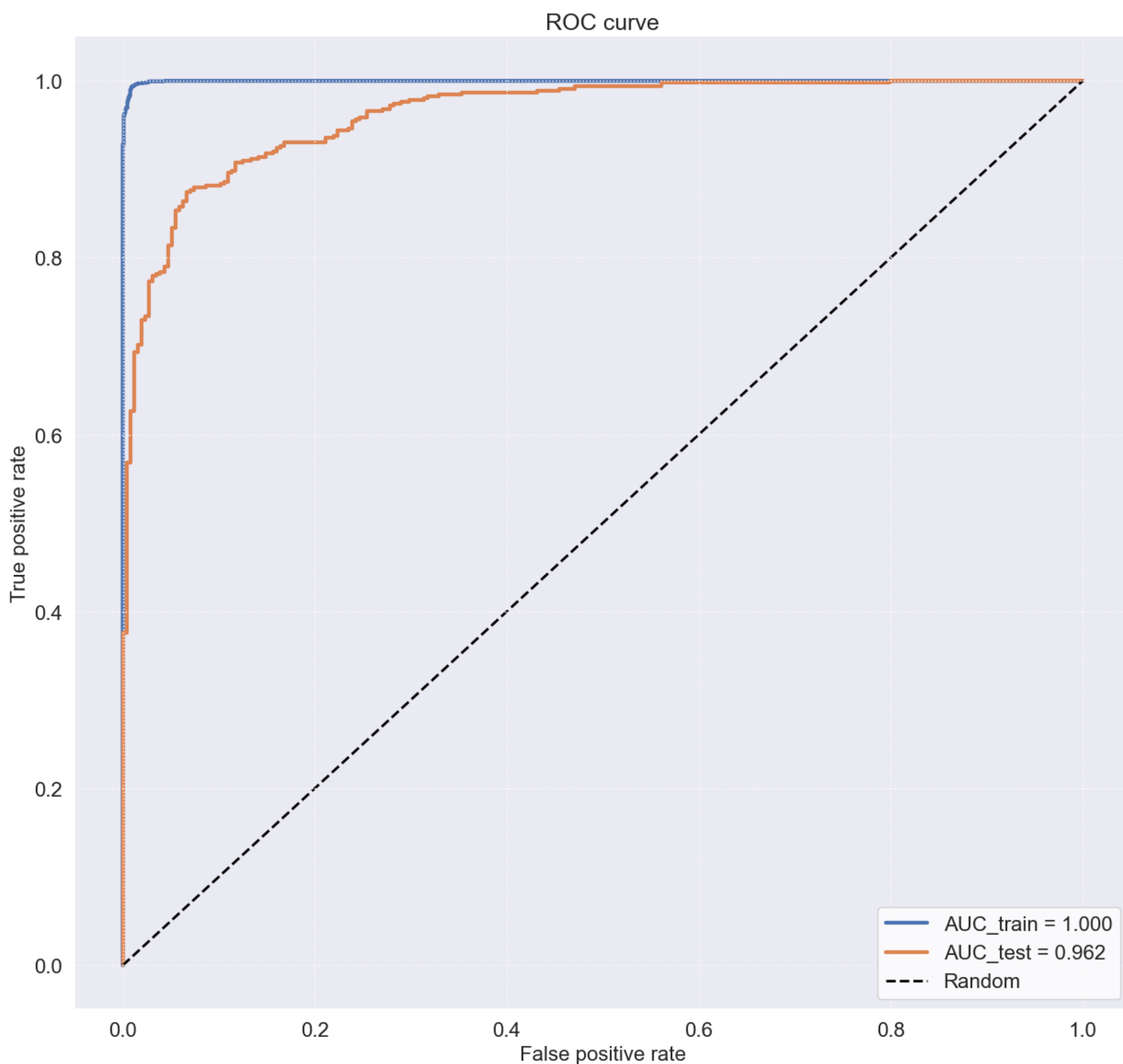
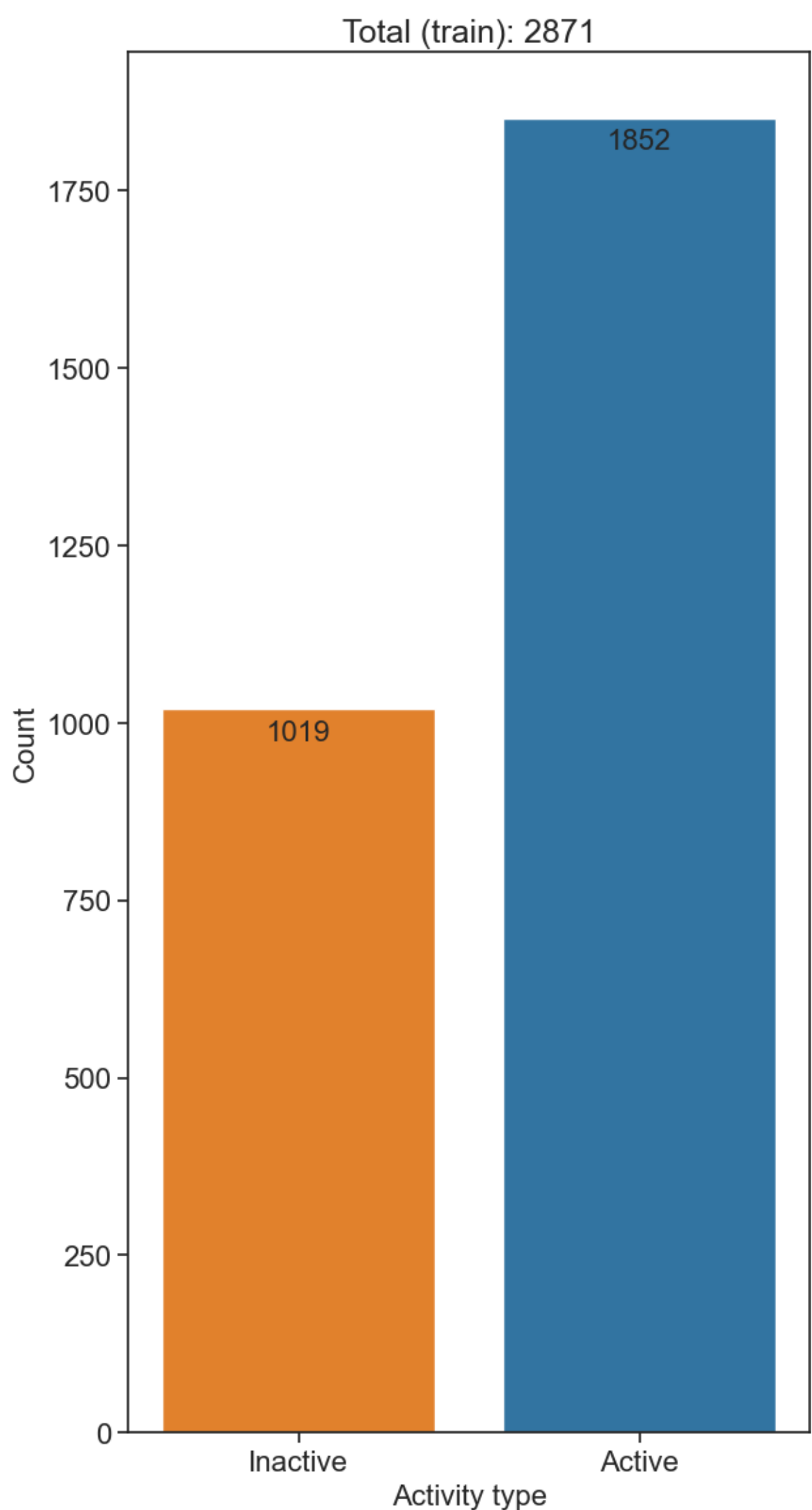


XGBoost Parameters	Value
alpha	4.6264
colsample_bytree	0.7128
gamma	0.104
lambda	1.6636
learning_rate	0.1247
max_depth	9.0
min_child_weight	2.0
n_estimators	215.0
reg_alpha	0.1564
reg_lambda	0.9924
scale_pos_weight	1.0323
subsample	0.807

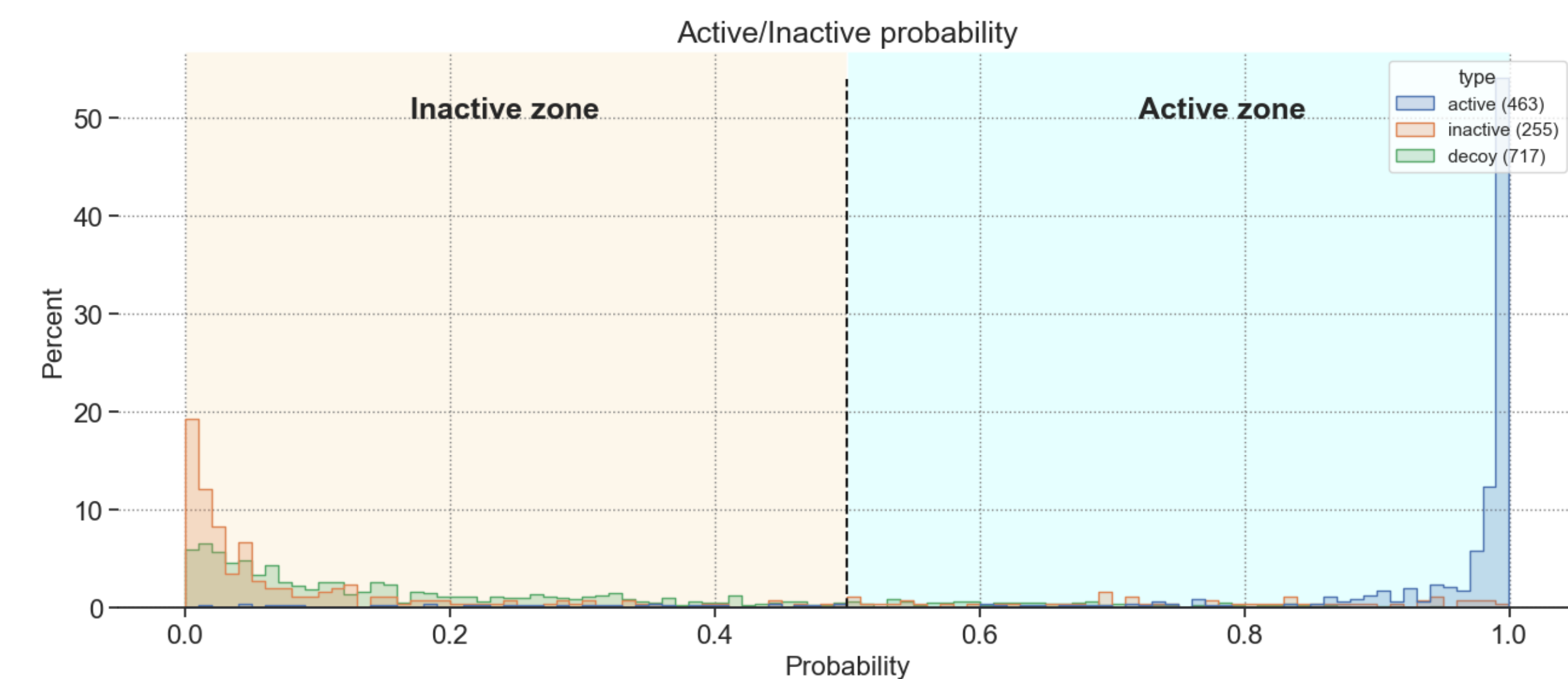
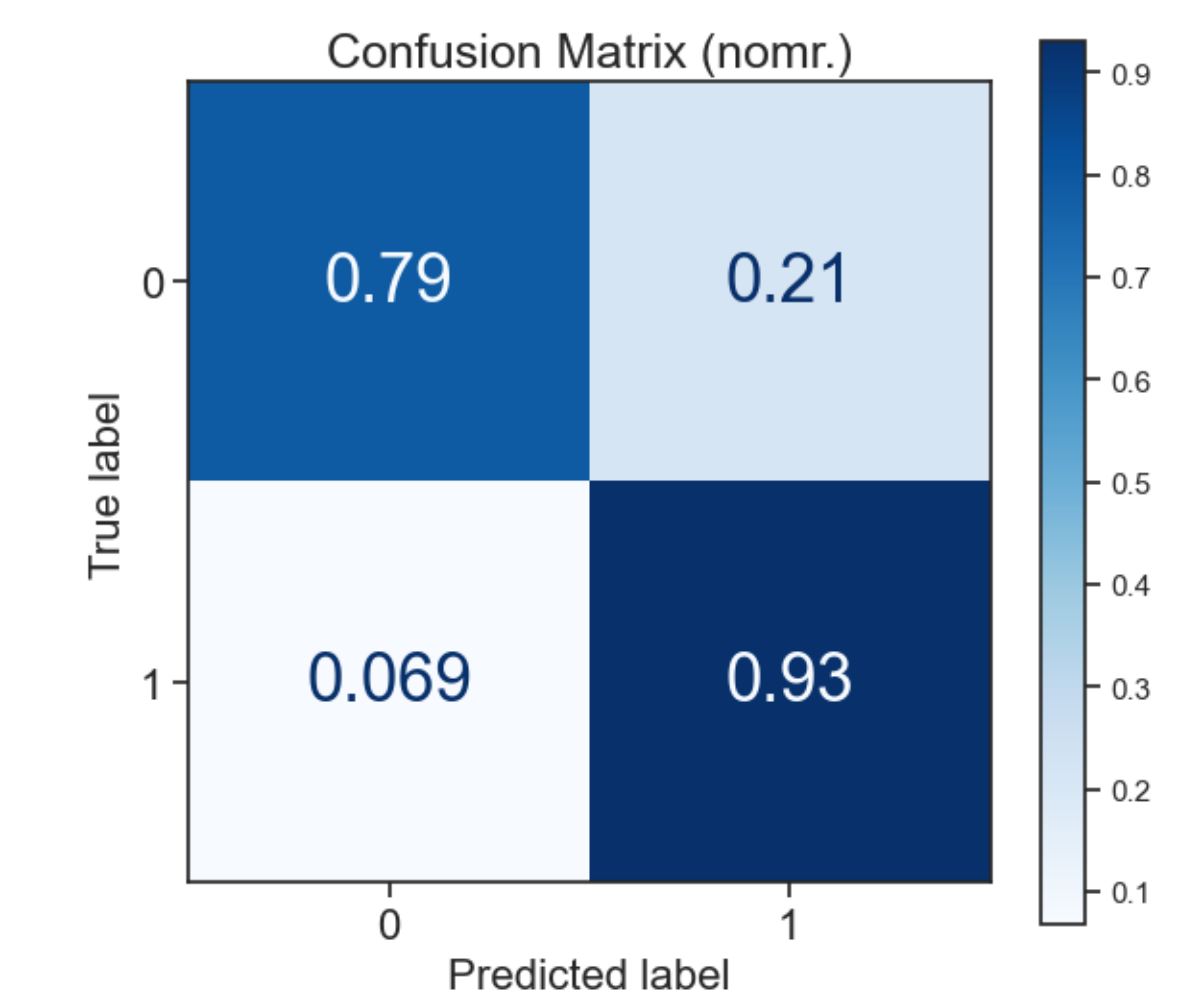
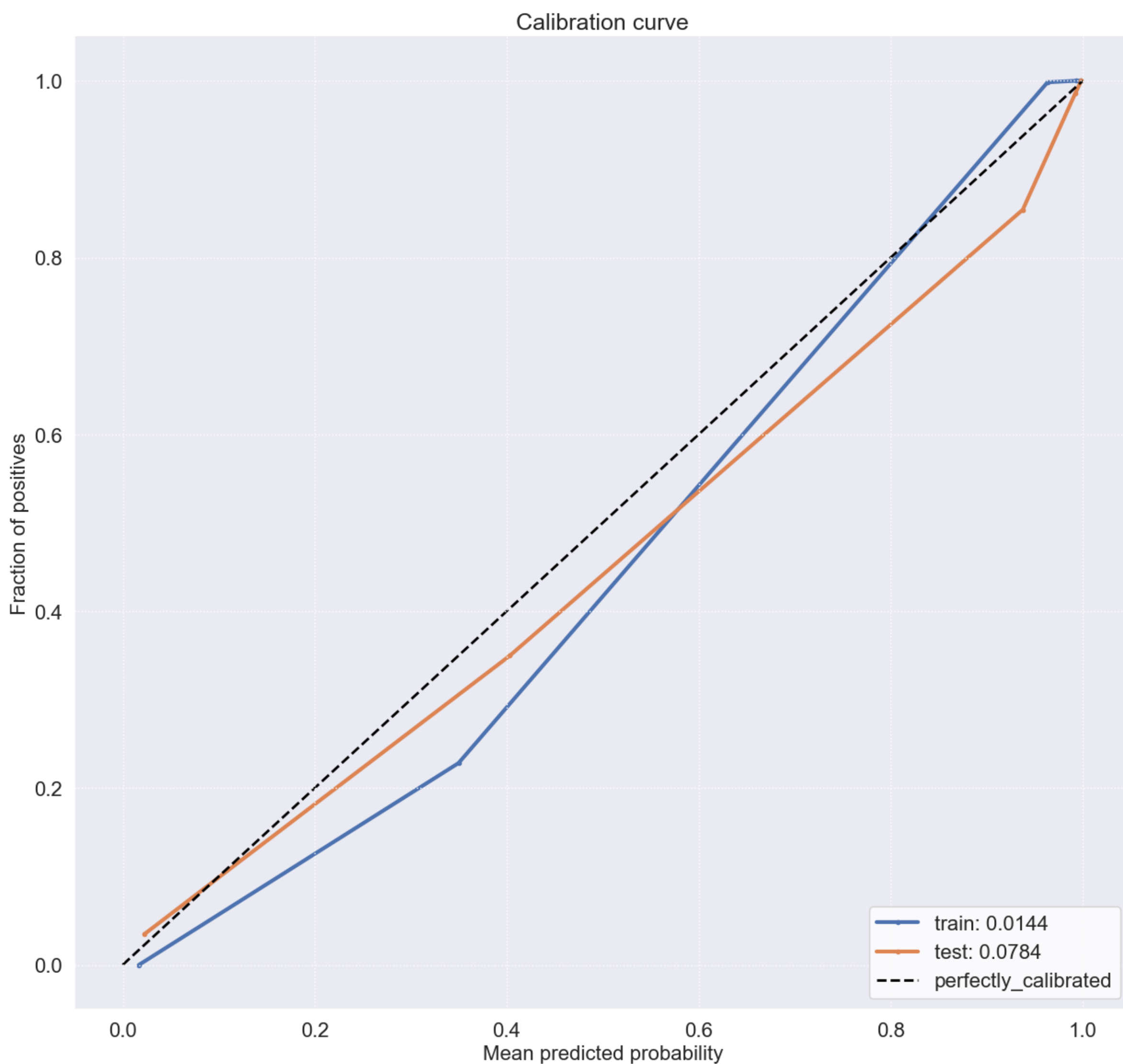
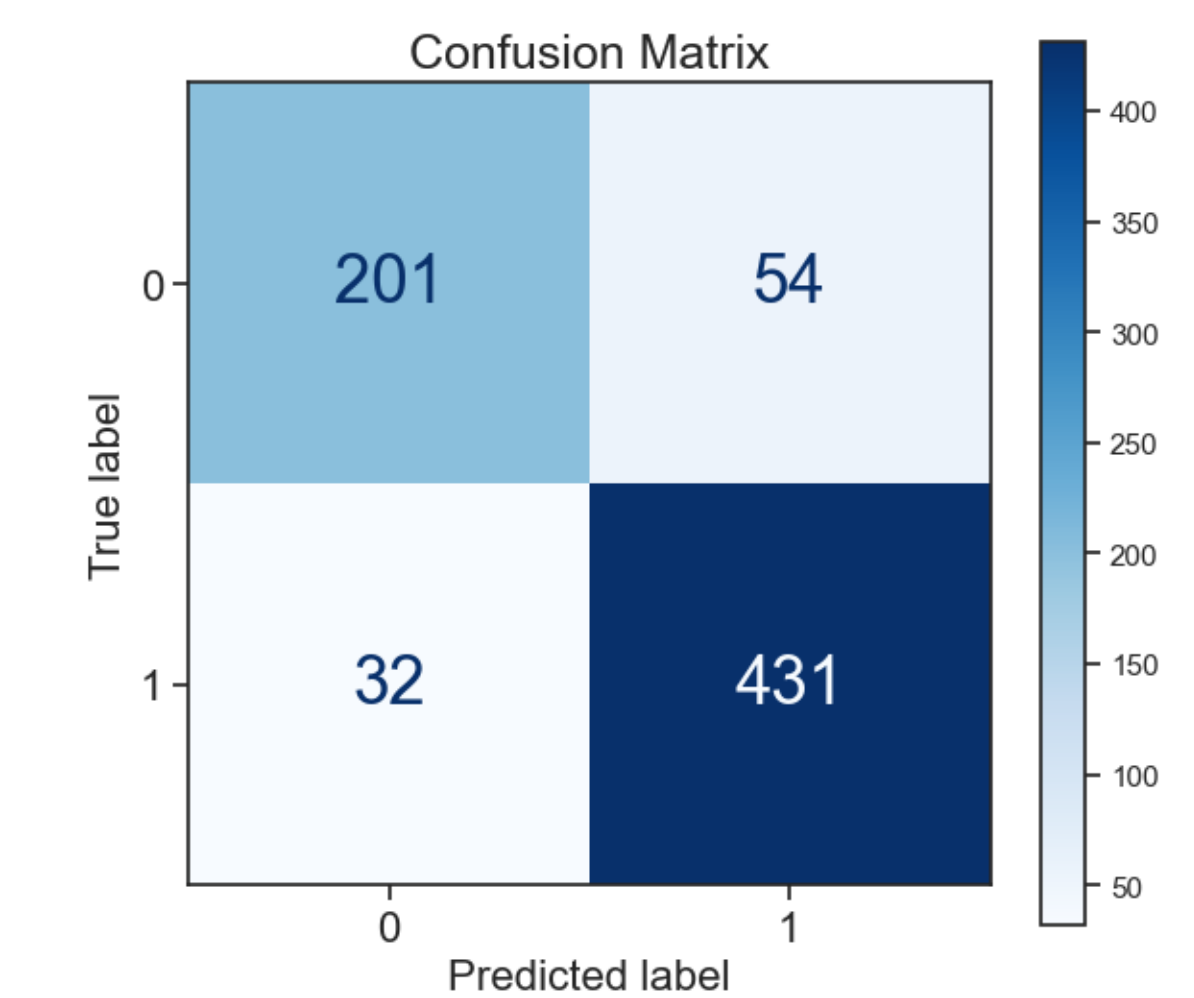


Metric	Train	Test
AUC	0.9991	0.9611
accuracy	0.9829	0.8914
balanced accuracy	0.9795	0.8788
recall_(sens)	0.9914	0.9222
specificity	0.9676	0.8353
precision	0.9823	0.9104
f1_score	0.9829	0.8911

Protein: P29274 - metric: f1

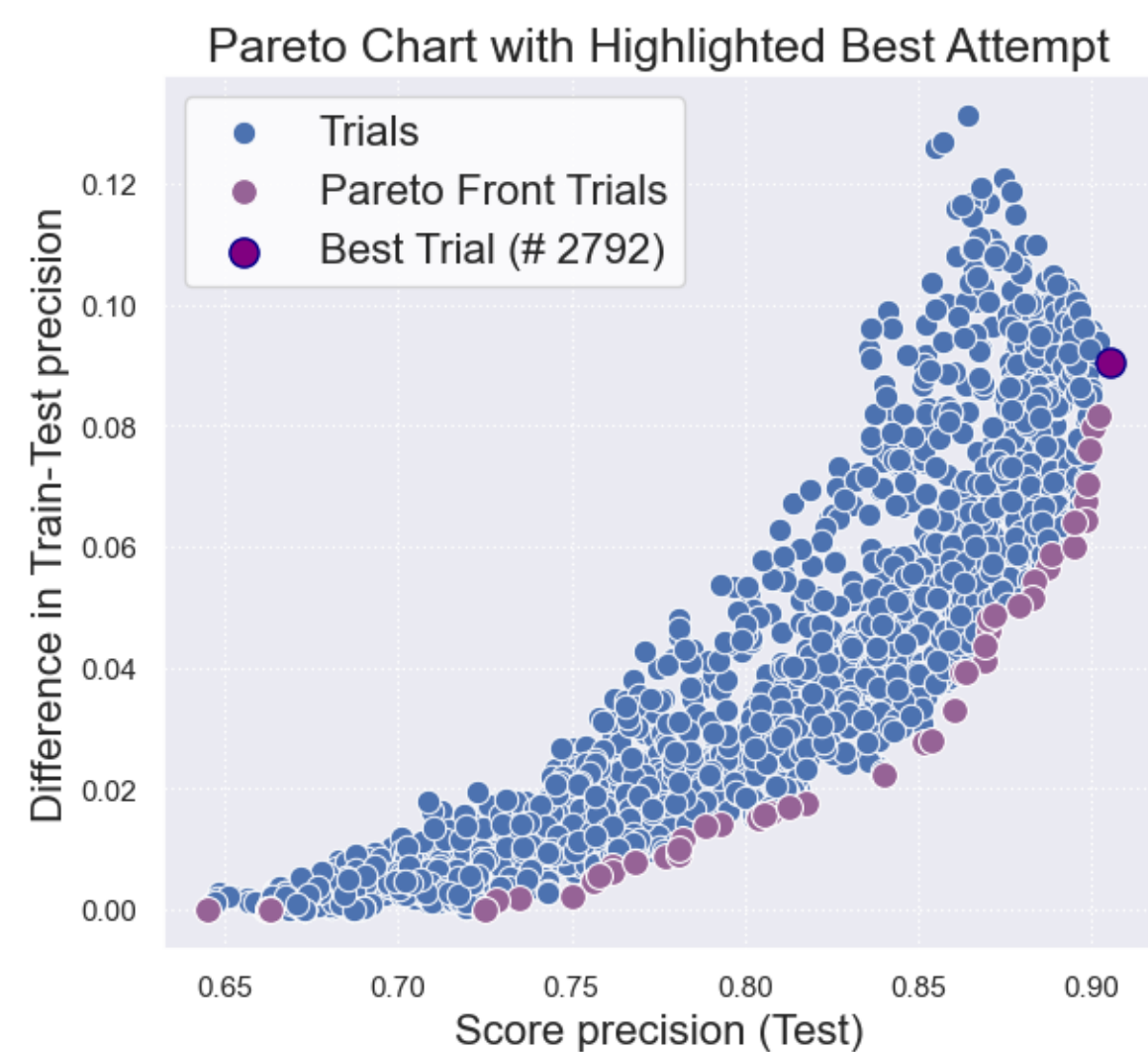
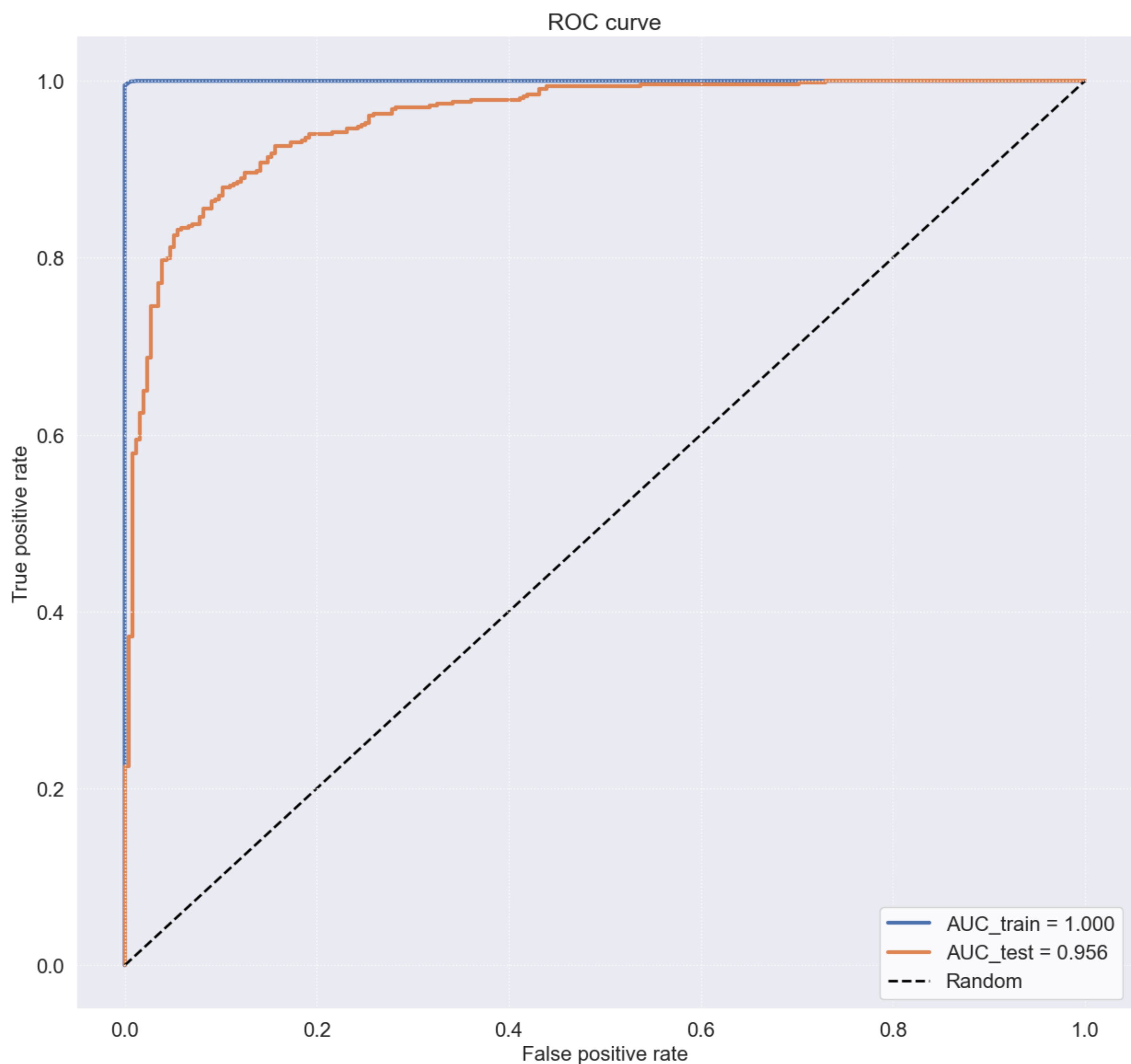
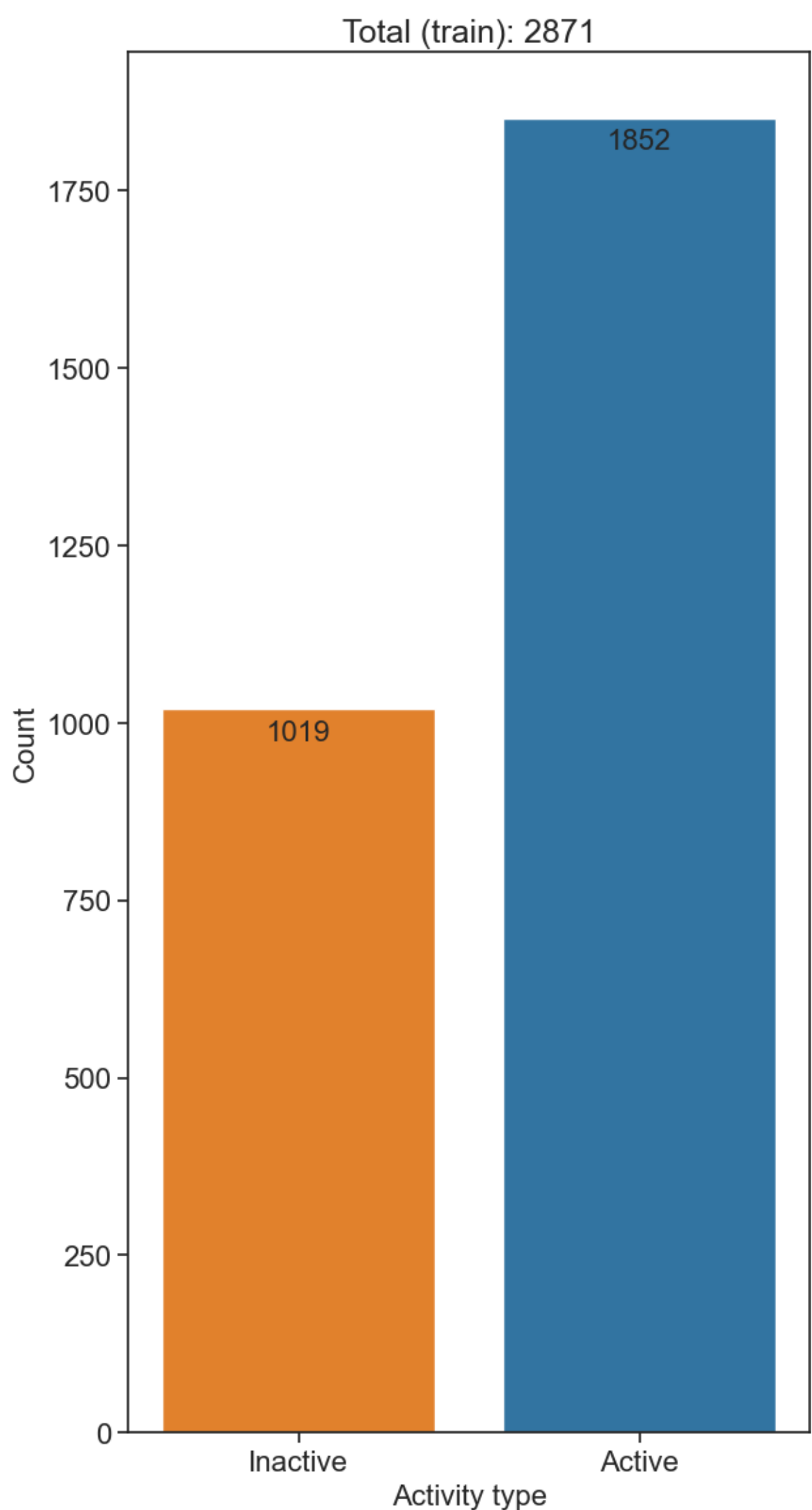


XGBoost Parameters	Value
alpha	4.5954
colsample_bytree	0.6981
gamma	0.0337
lambda	0.5454
learning_rate	0.1151
max_depth	9.0
min_child_weight	1.0
n_estimators	221.0
reg_alpha	0.8969
reg_lambda	0.1285
scale_pos_weight	2.1214
subsample	0.6179

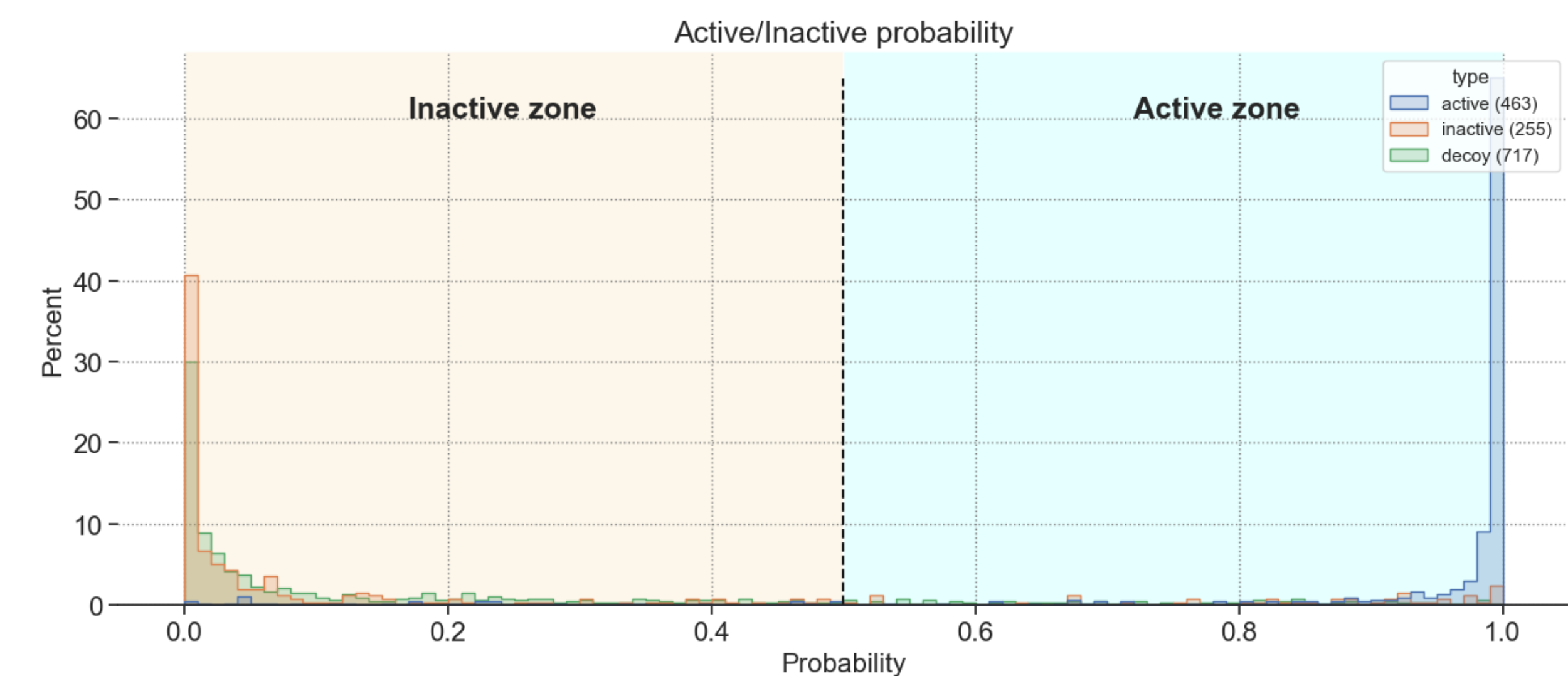
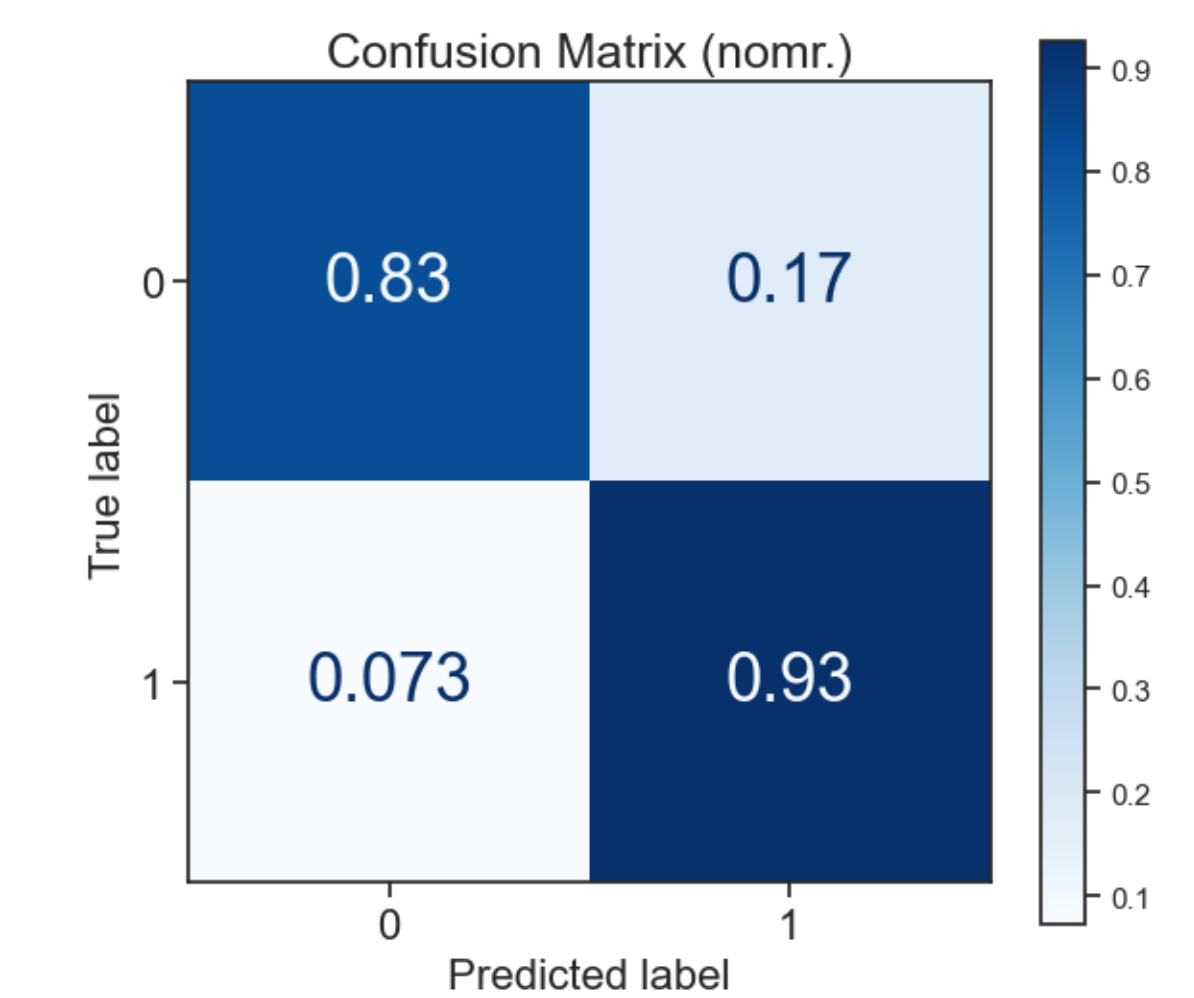
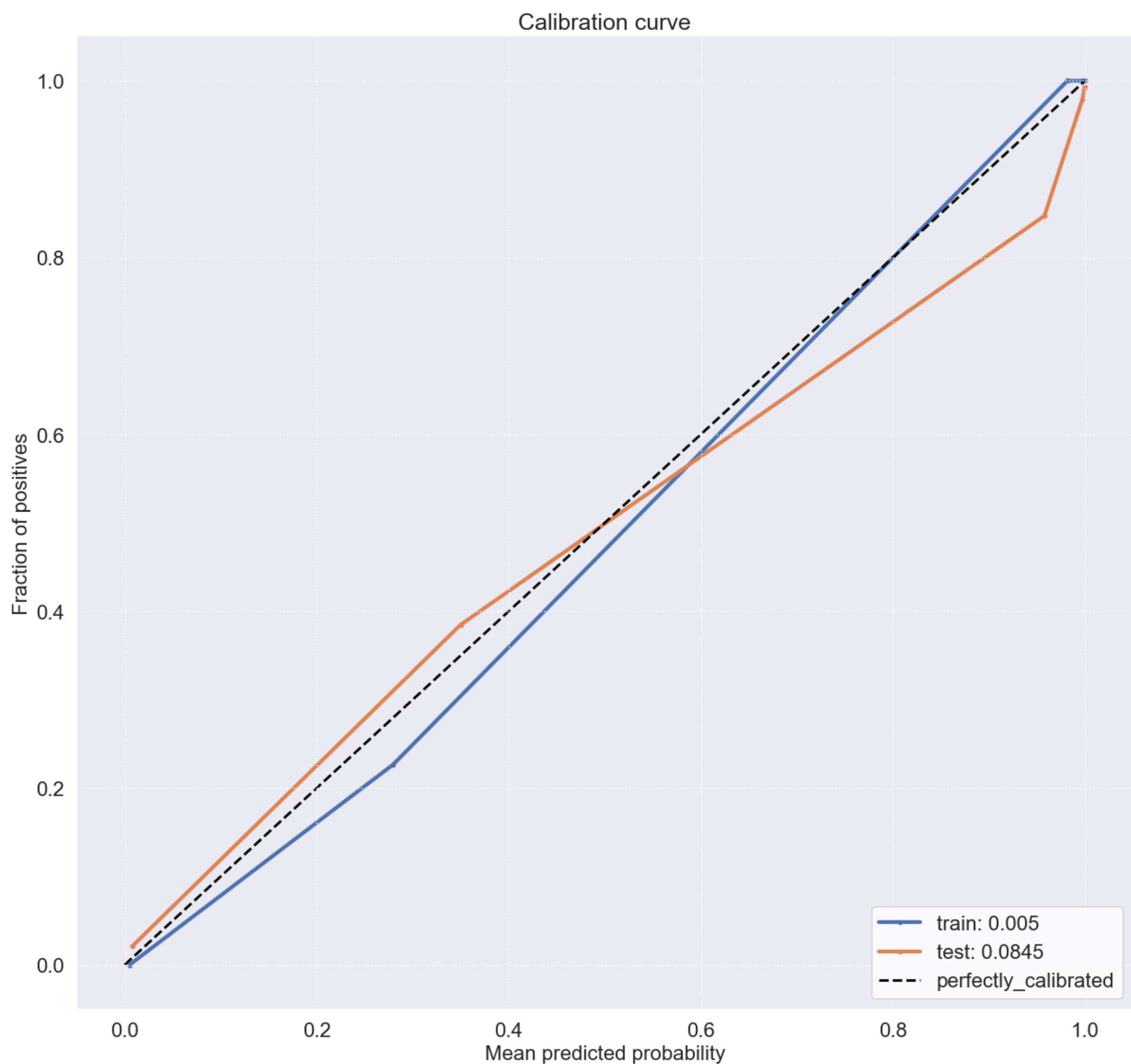
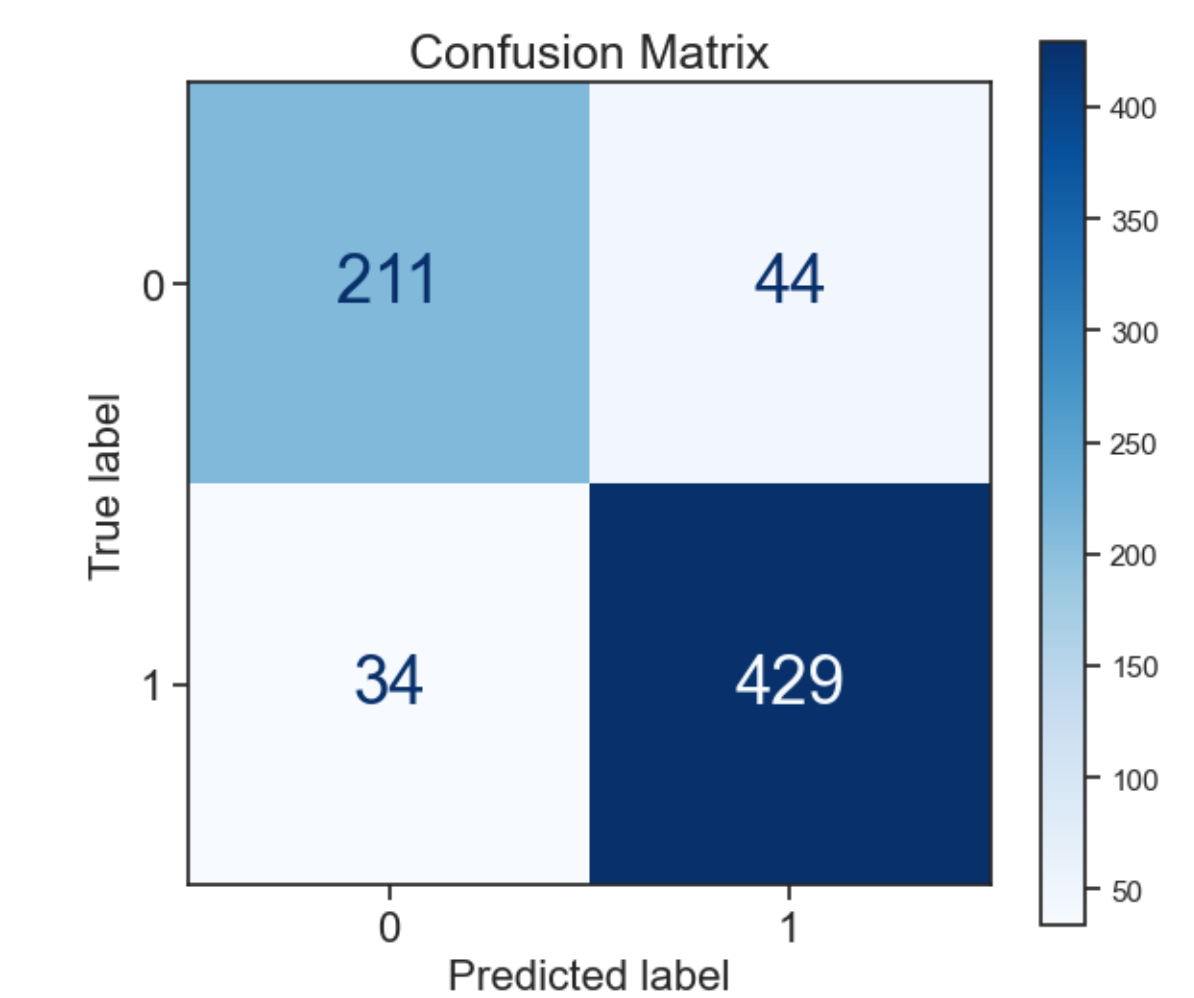


Metric	Train	Test
AUC	0.9997	0.9622
accuracy	0.9861	0.8802
balanced accuracy	0.9806	0.8596
recall_(sens)	0.9995	0.9309
specificity	0.9617	0.7882
precision	0.9794	0.8887
f1_score	0.986	0.8789

Protein: P29274 - metric: precision

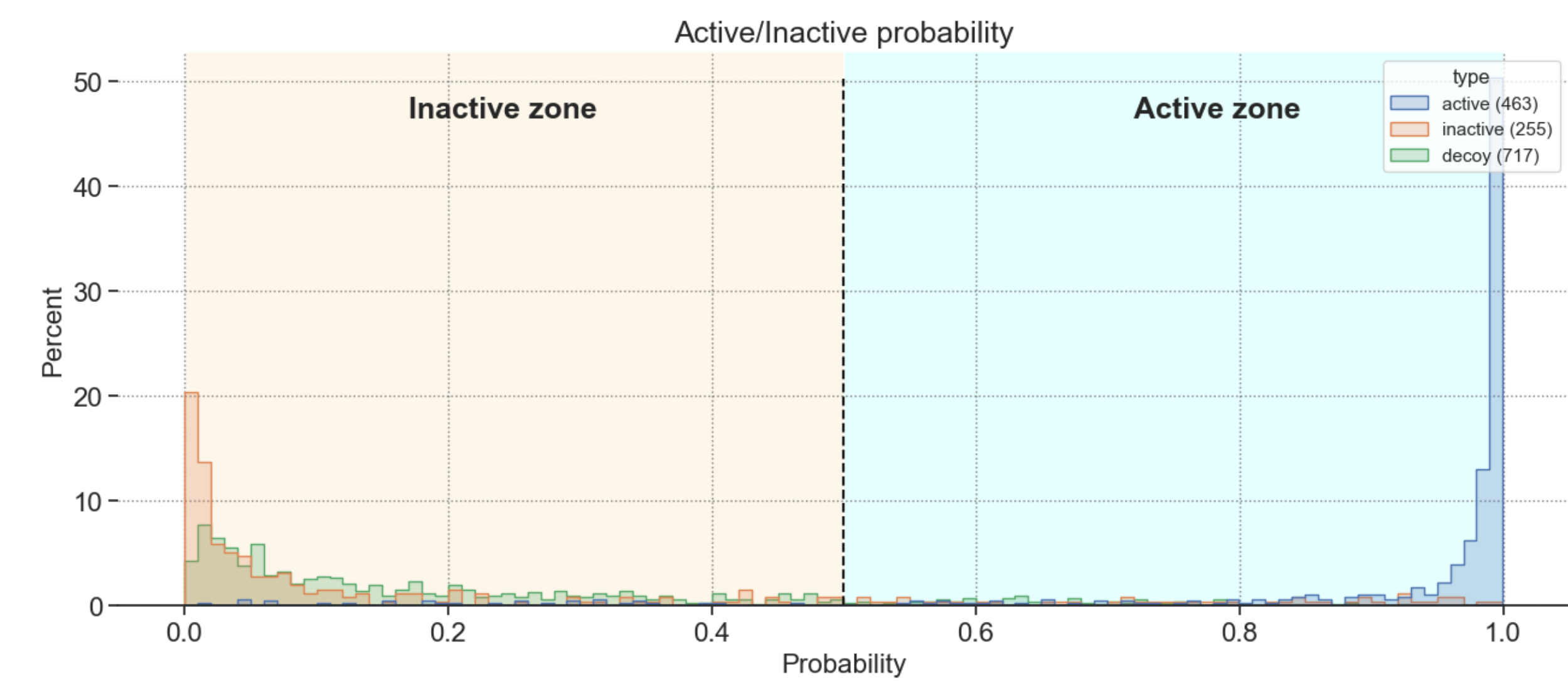
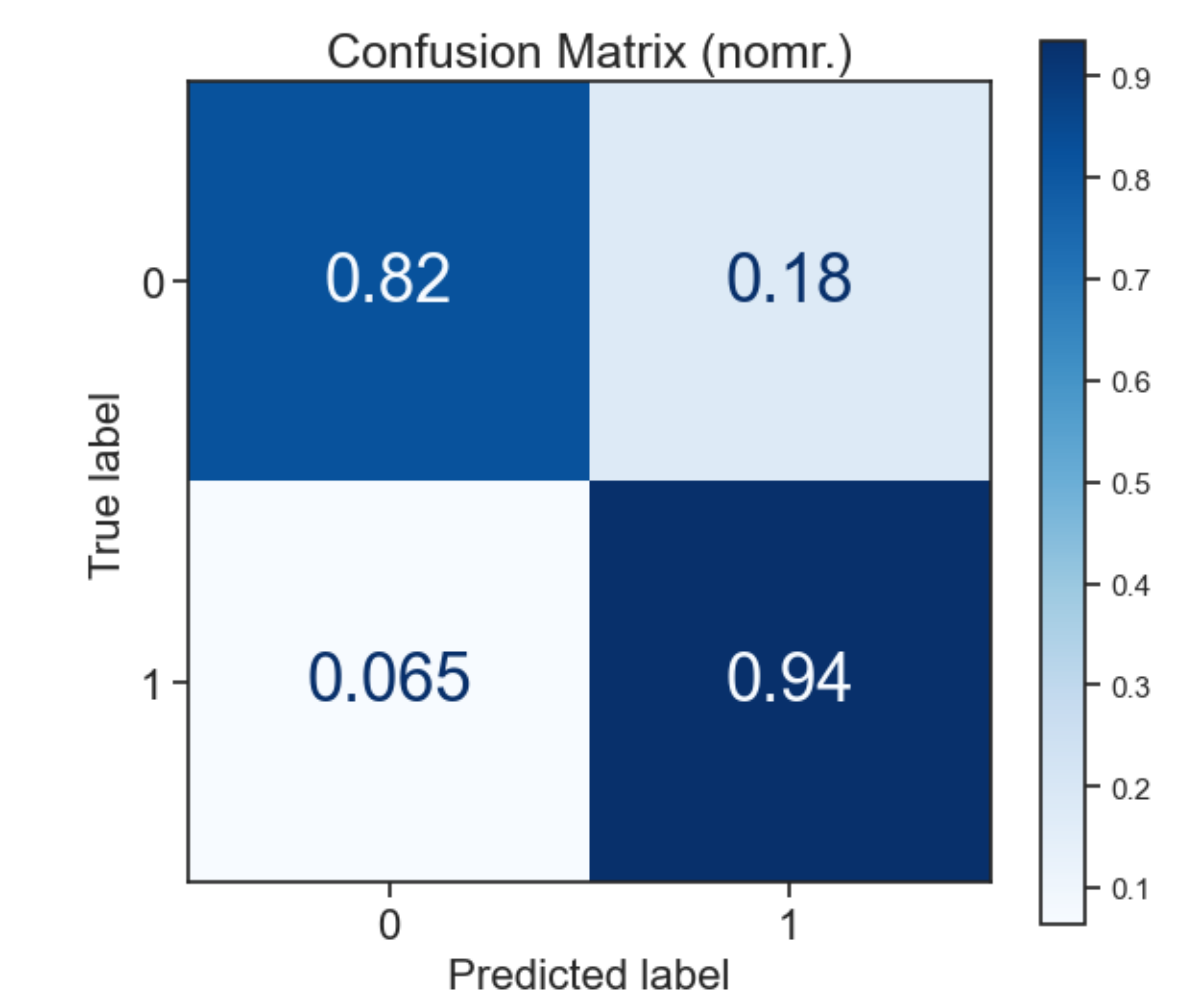
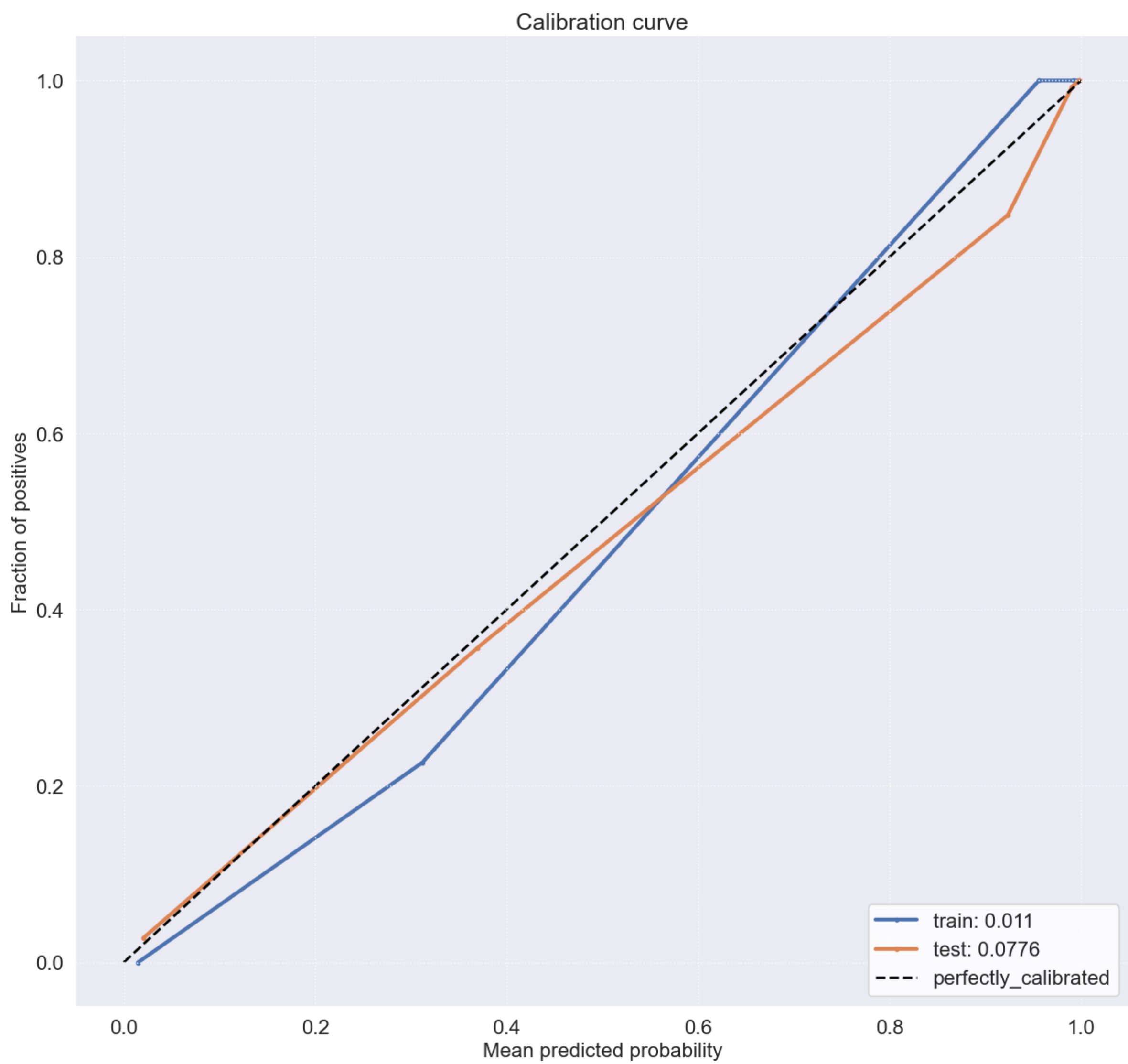
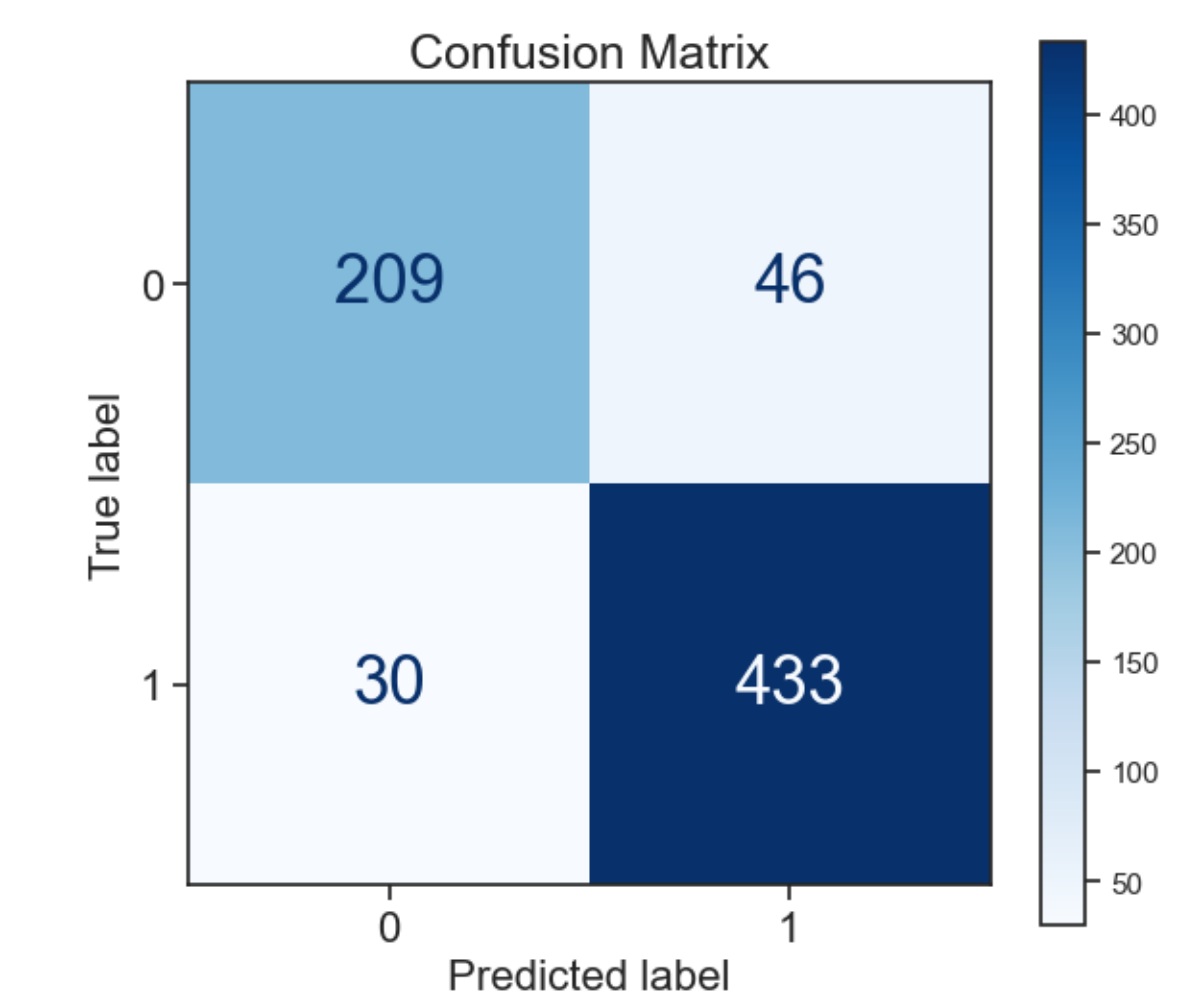
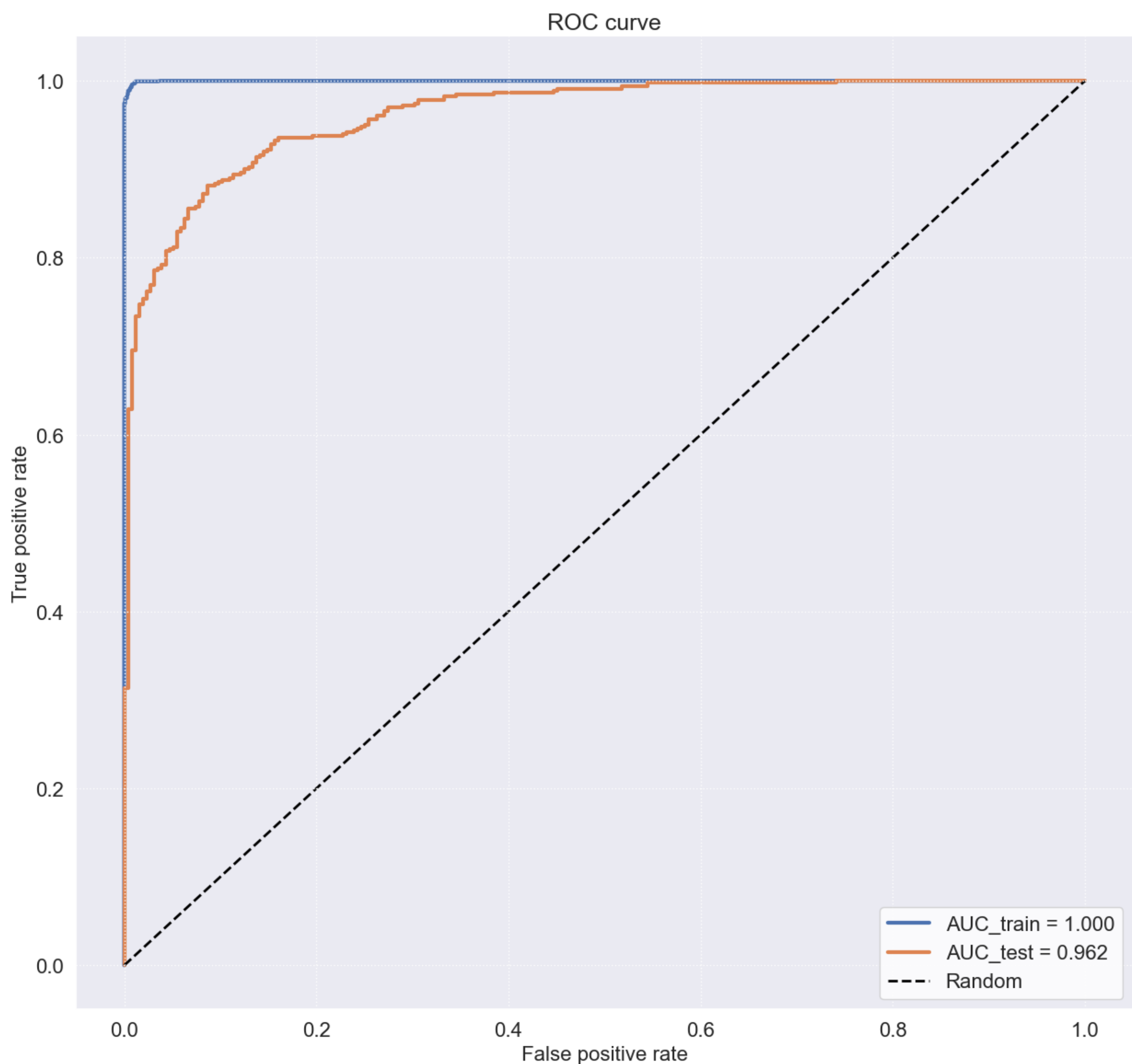
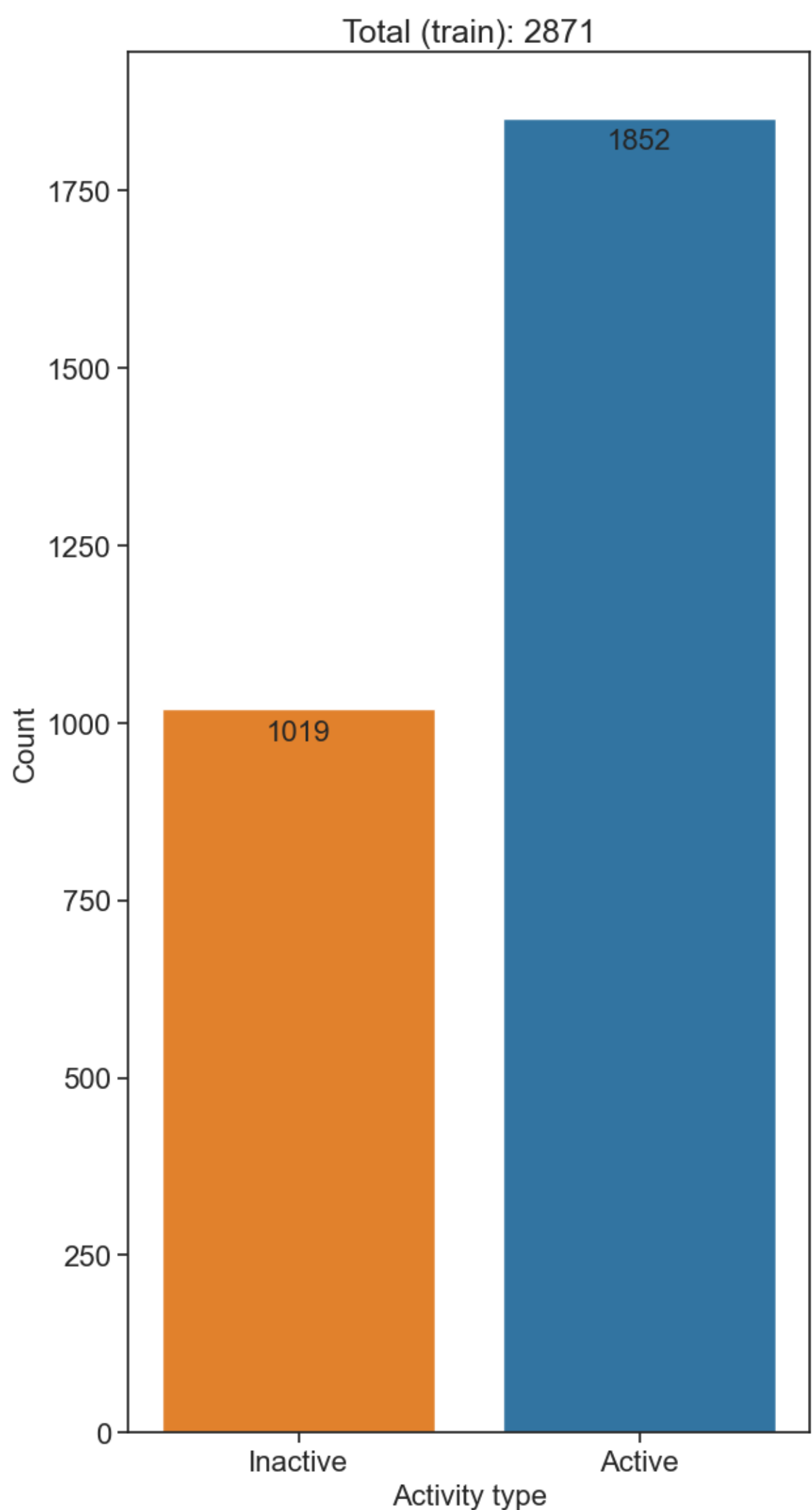


XGBoost Parameters	Value
alpha	3.3529
colsample_bytree	0.9582
gamma	0.1483
lambda	4.1225
learning_rate	0.2343
max_depth	4.0
min_child_weight	1.0
n_estimators	920.0
reg_alpha	0.7763
reg_lambda	0.0444
scale_pos_weight	1.7981
subsample	0.7581



Metric	Train	Test
AUC	1.0	0.9562
accuracy	0.9965	0.8914
balanced accuracy	0.9953	0.877
recall_(sens)	0.9995	0.9266
specificity	0.9912	0.8275
precision	0.9952	0.907
f1_score	0.9965	0.8909

Protein: P29274 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9999	0.9622
accuracy	0.992	0.8942
balanced accuracy	0.9889	0.8774
recall_(sens)	0.9995	0.9352
specificity	0.9784	0.8196
precision	0.9883	0.904
f1_score	0.992	0.8933