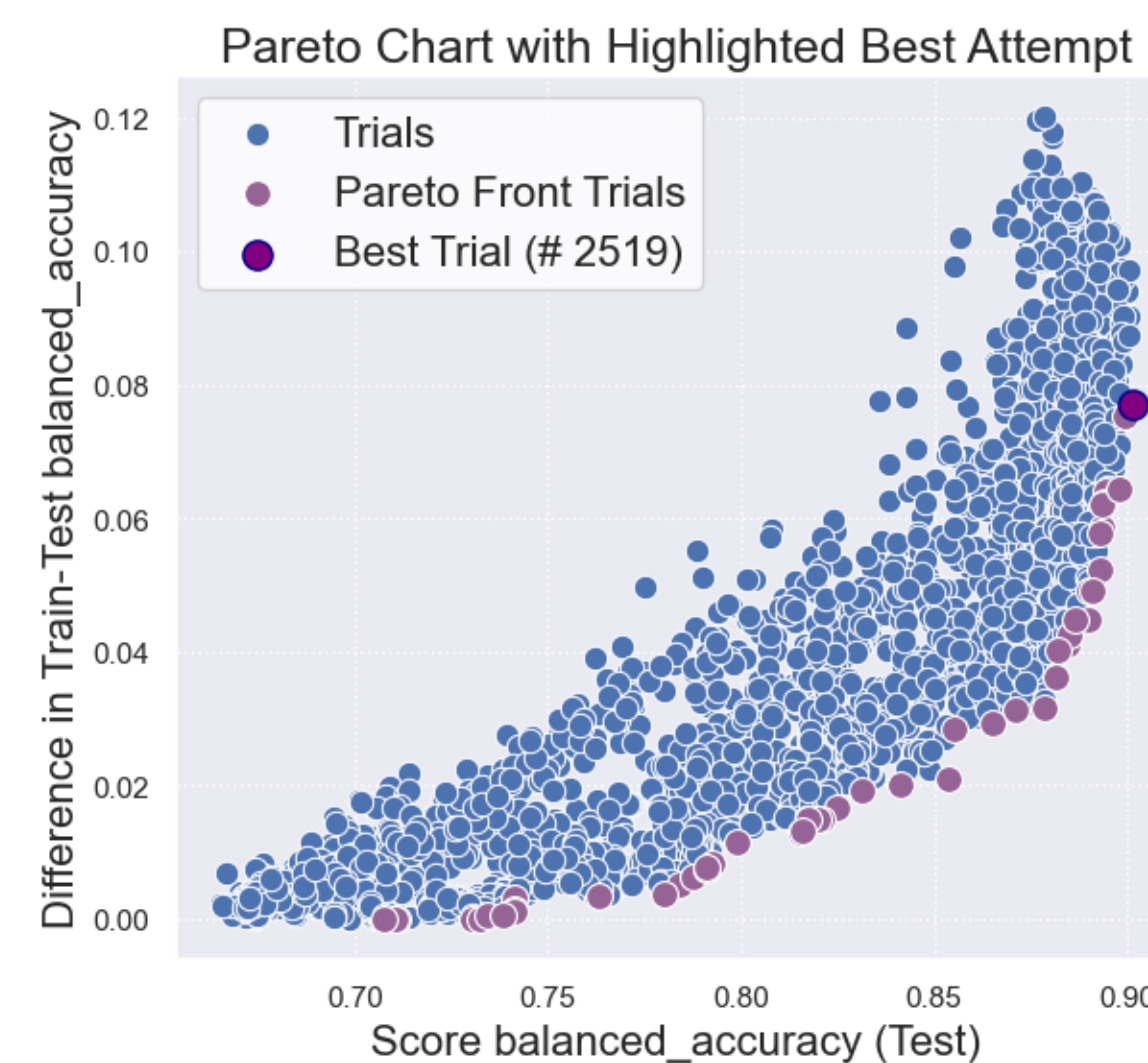
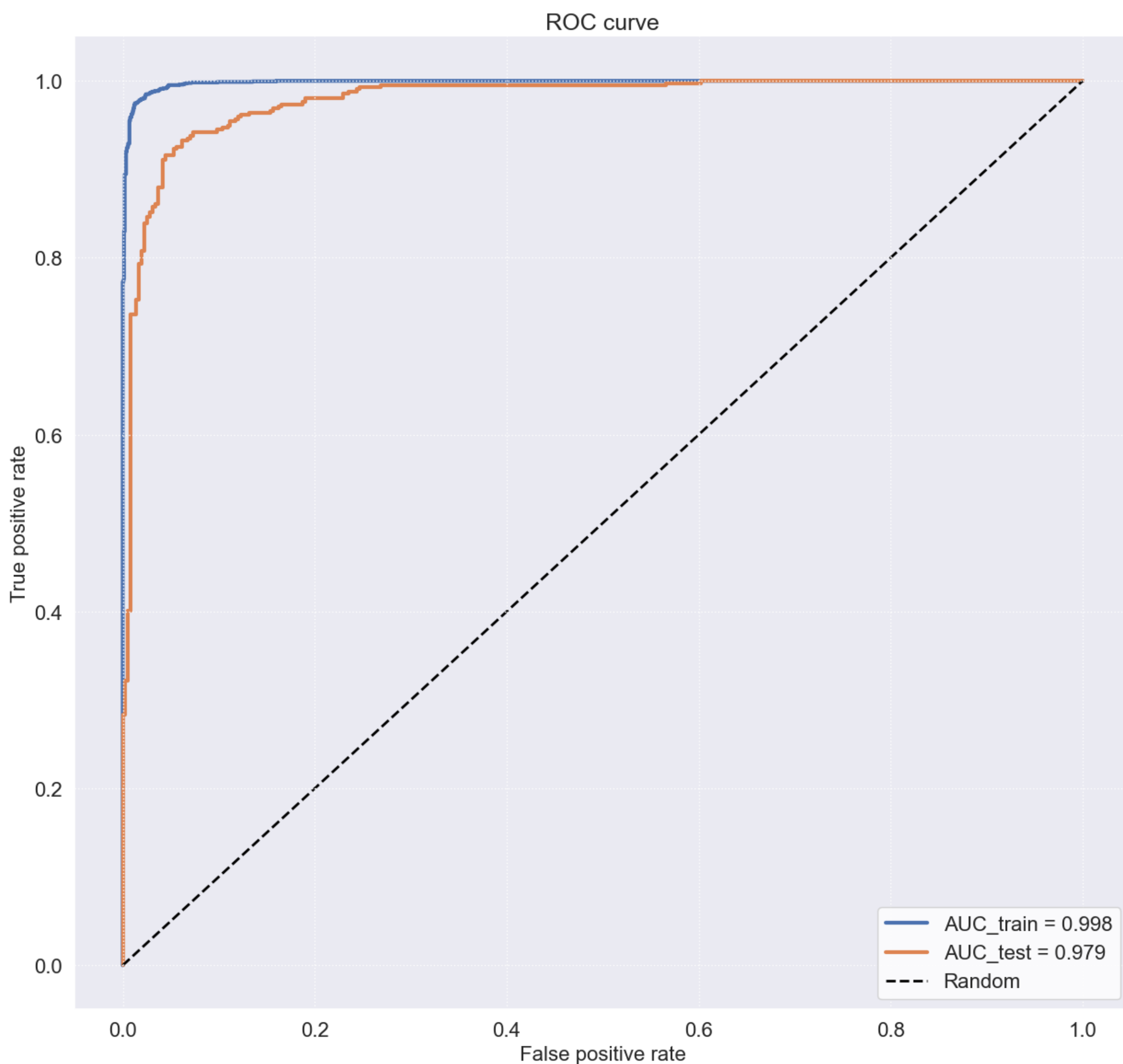
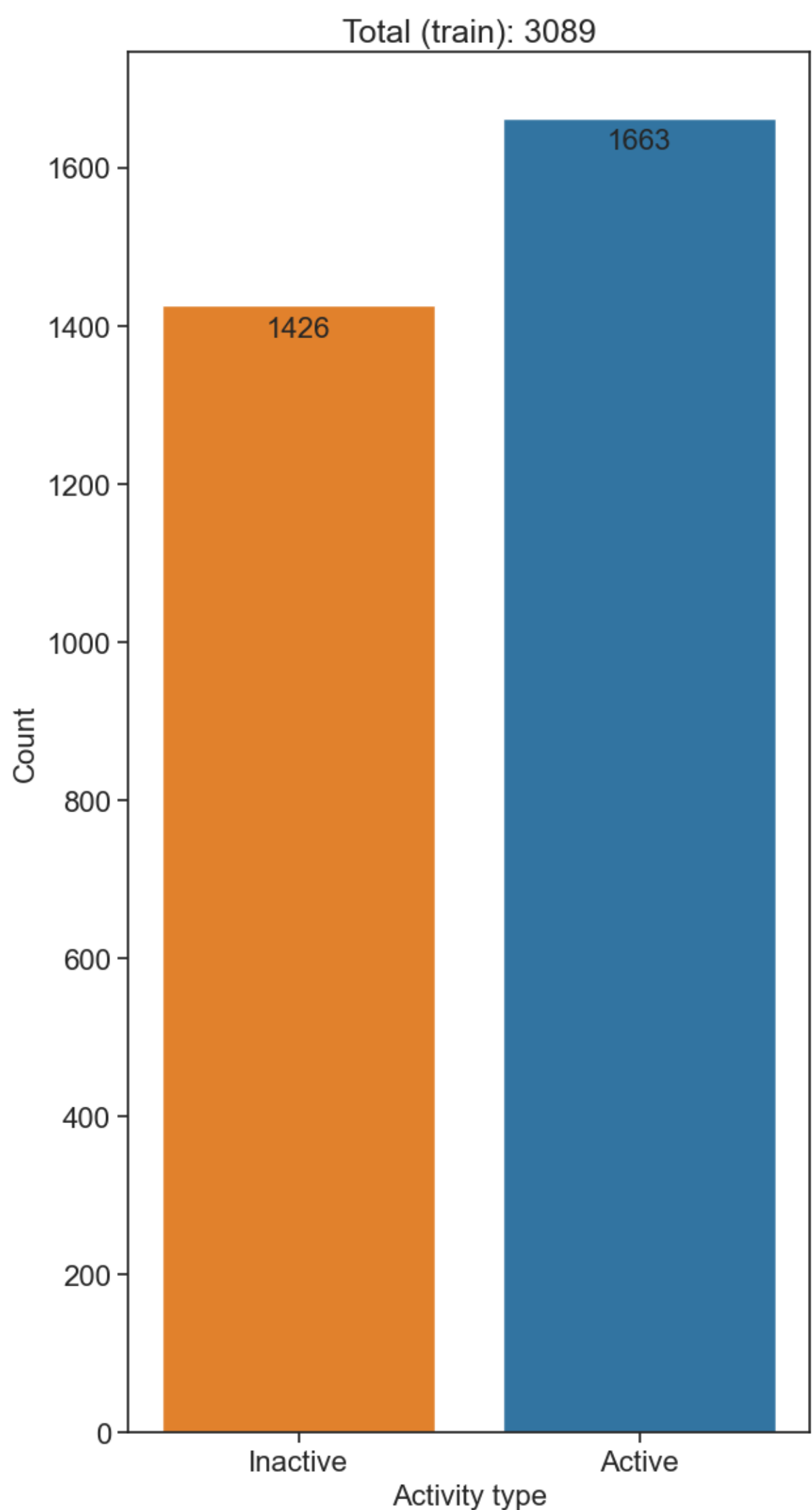
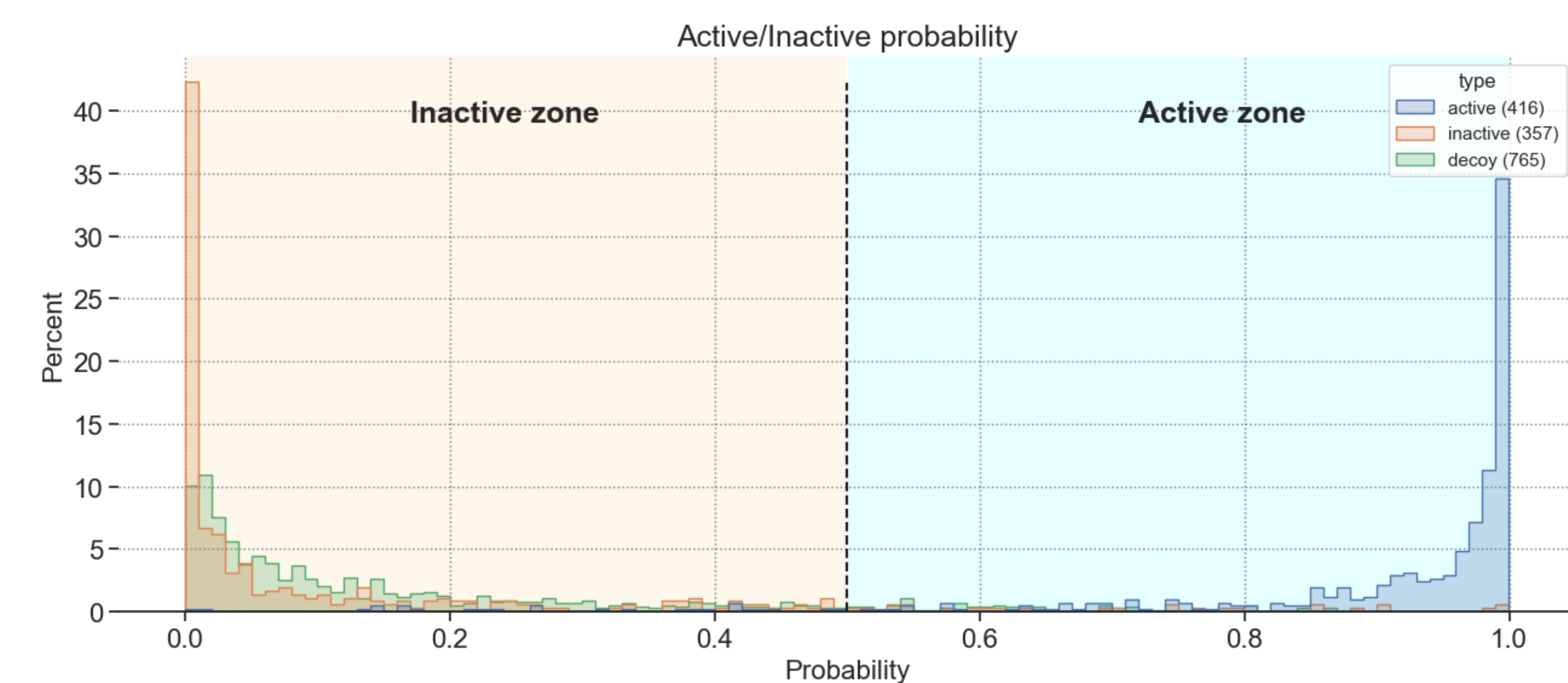
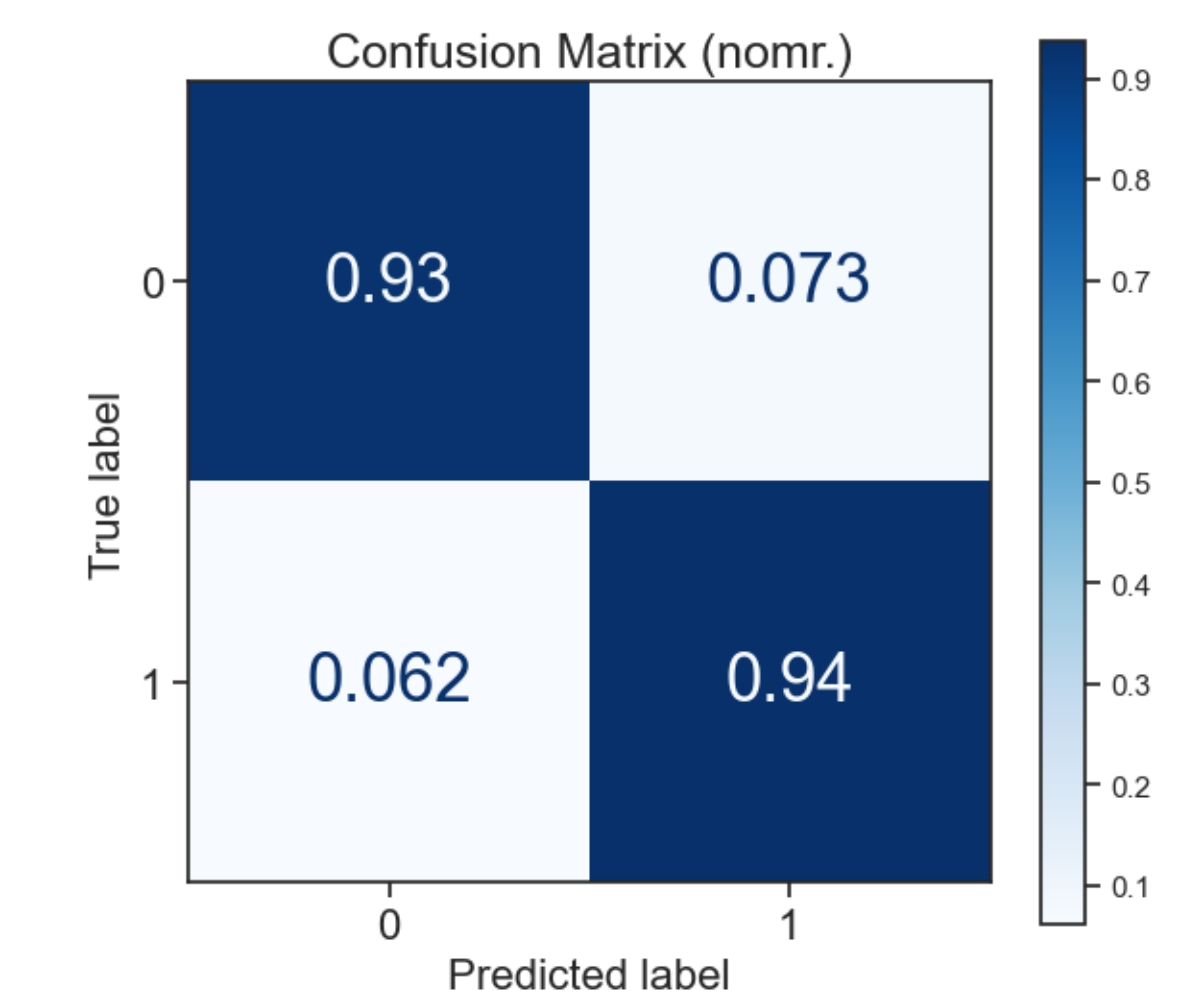
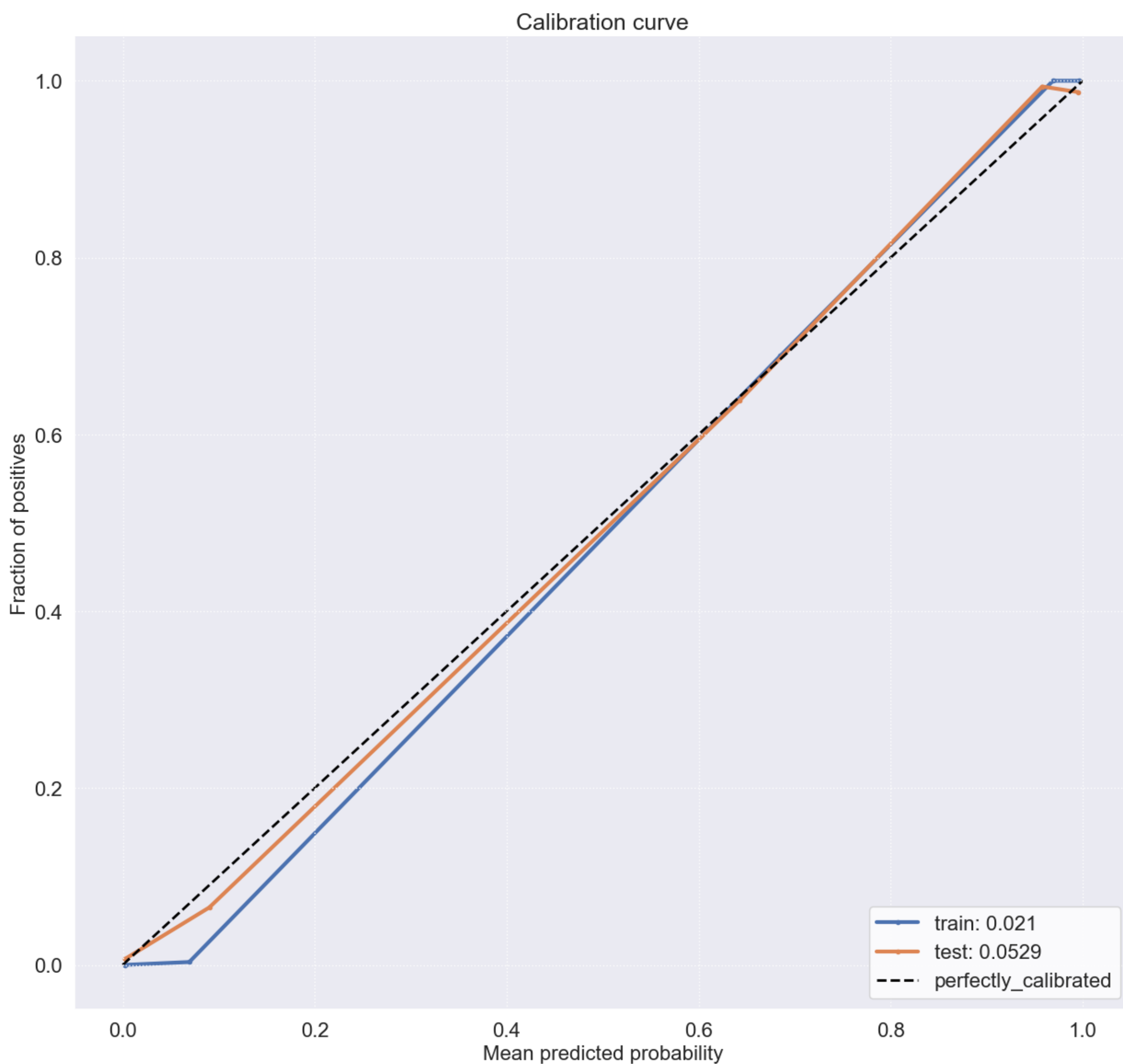
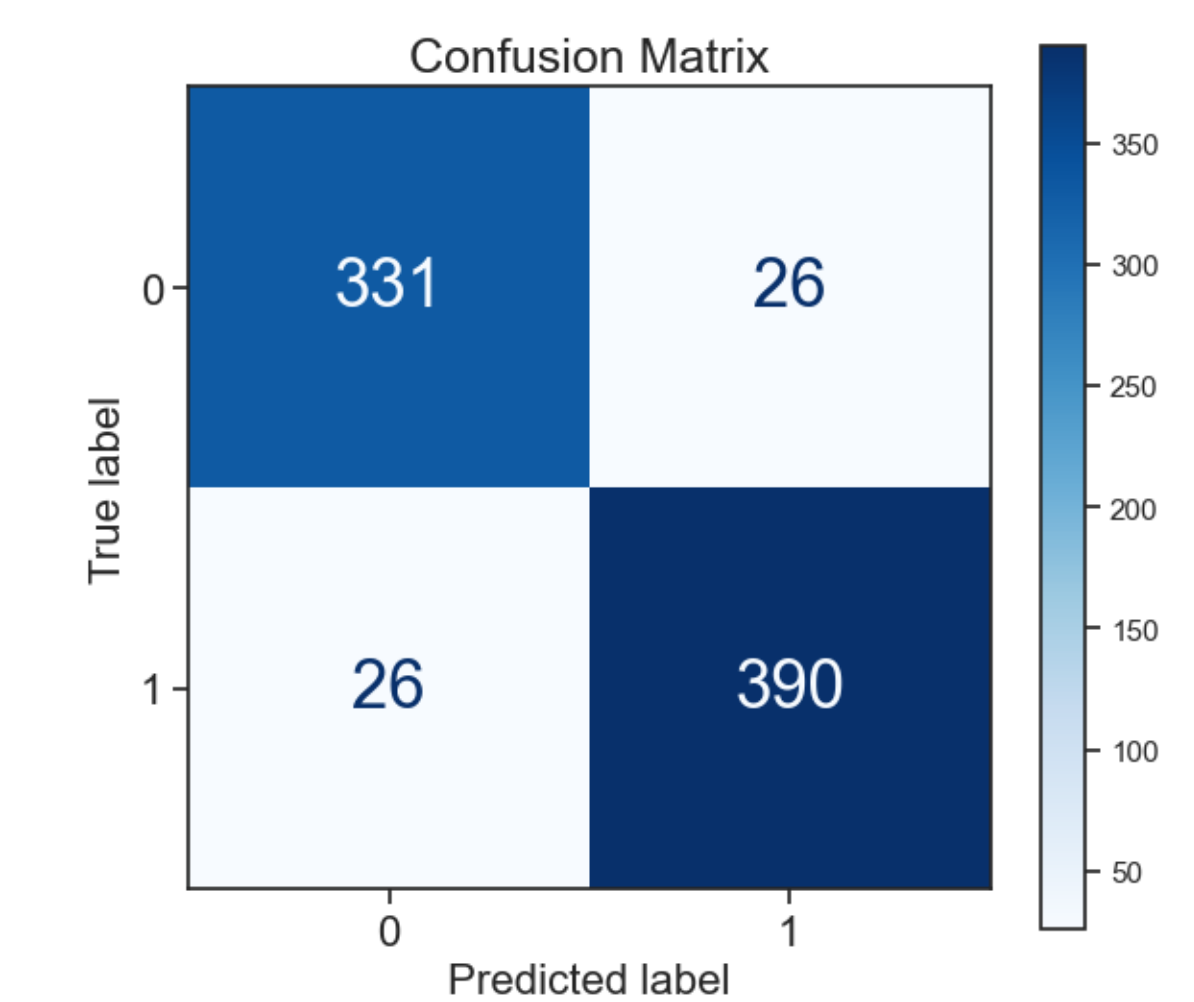


Protein: Q15858 - metric: balanced_accuracy

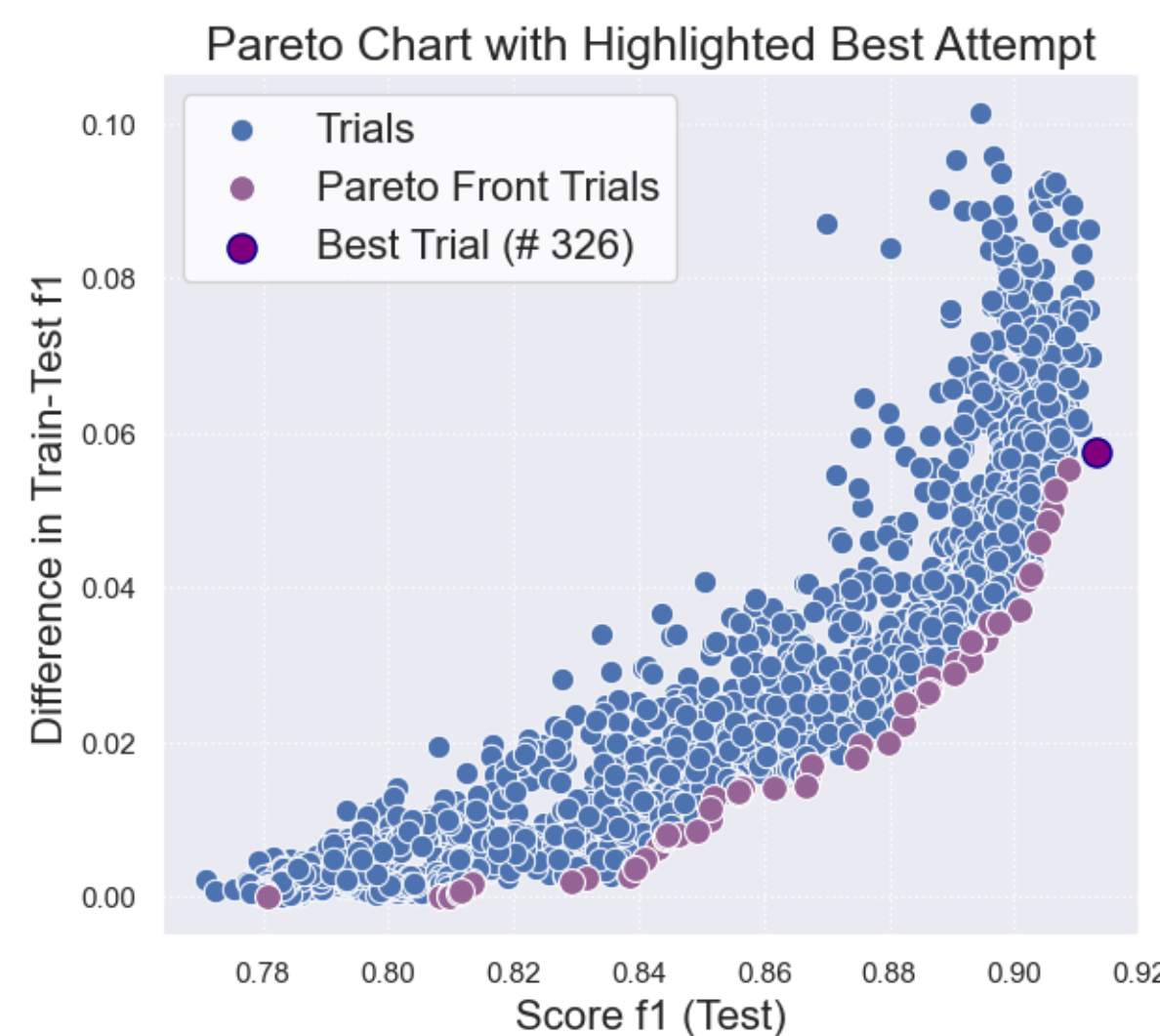
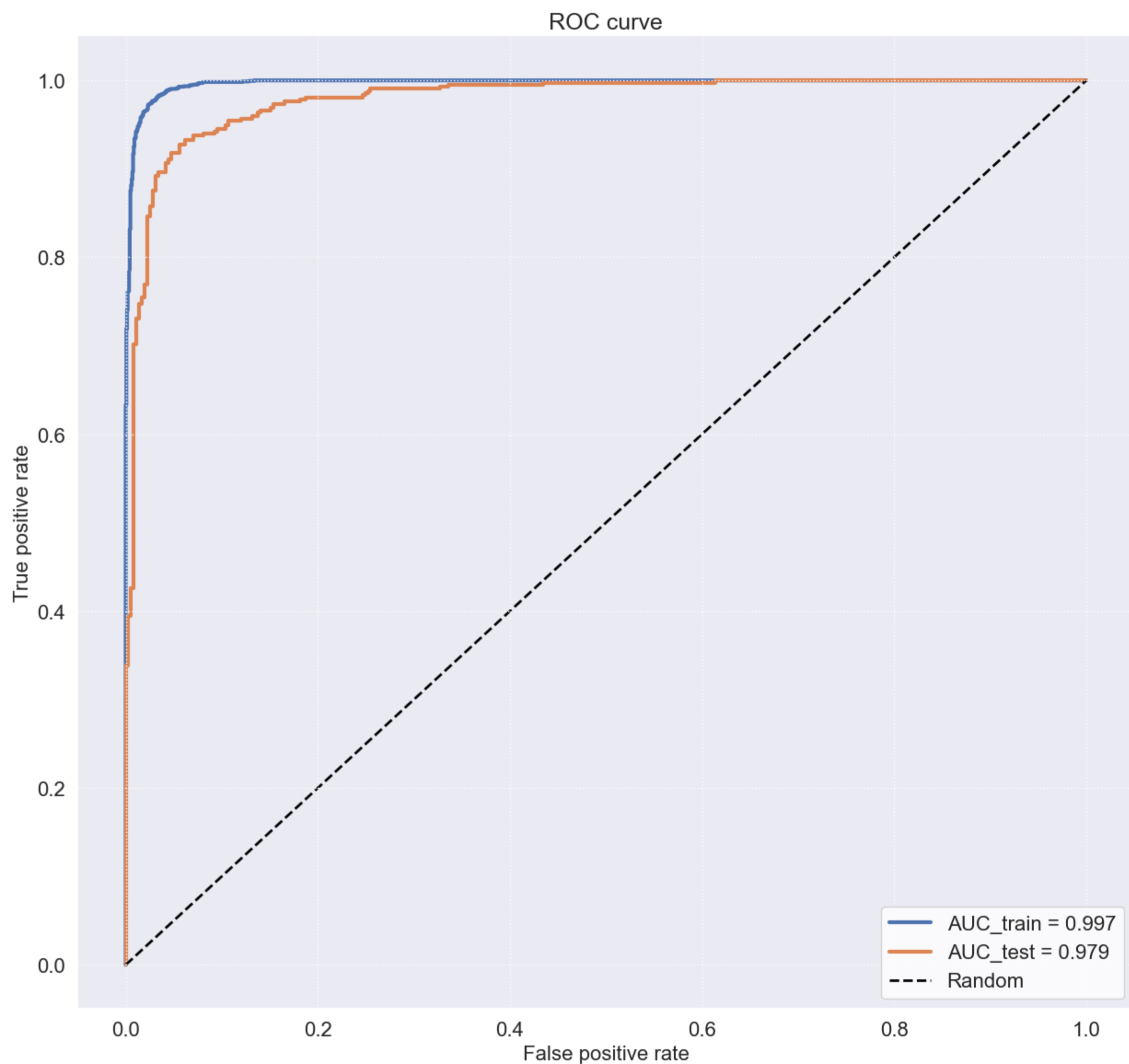
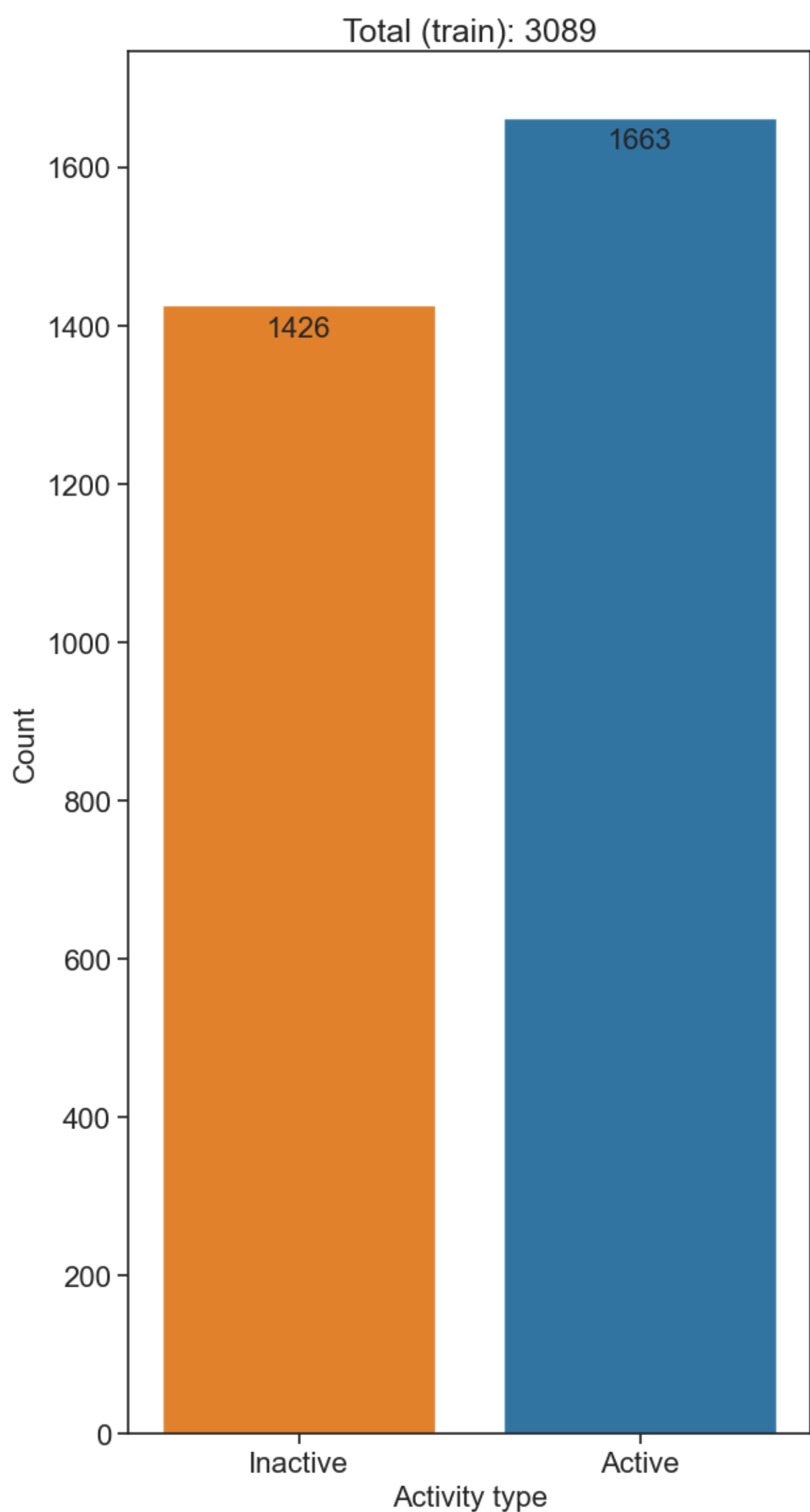


XGBoost Parameters	Value
alpha	4.456
colsample_bytree	0.9151
gamma	0.5433
lambda	3.1746
learning_rate	0.038
max_depth	9.0
min_child_weight	4.0
n_estimators	943.0
reg_alpha	0.5882
reg_lambda	0.2135
scale_pos_weight	1.1813
subsample	0.5998

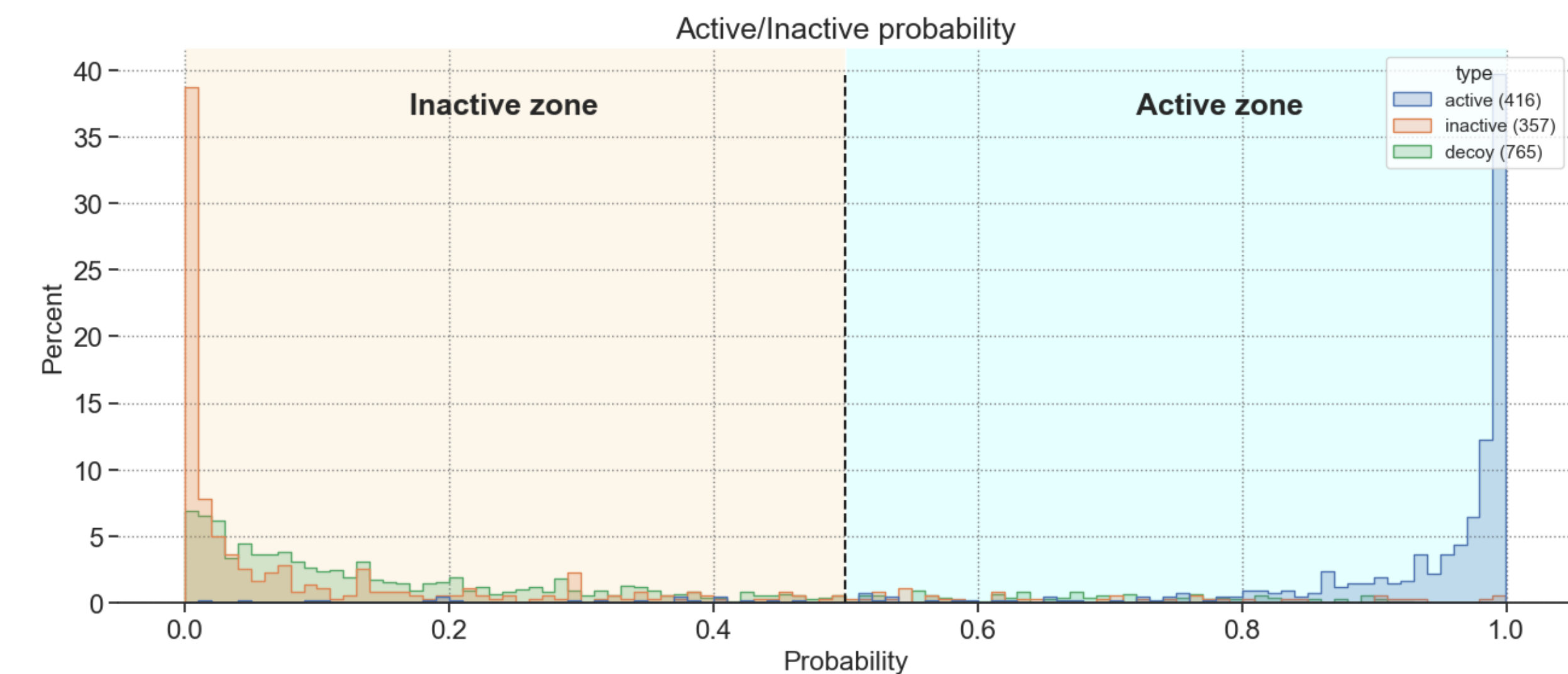
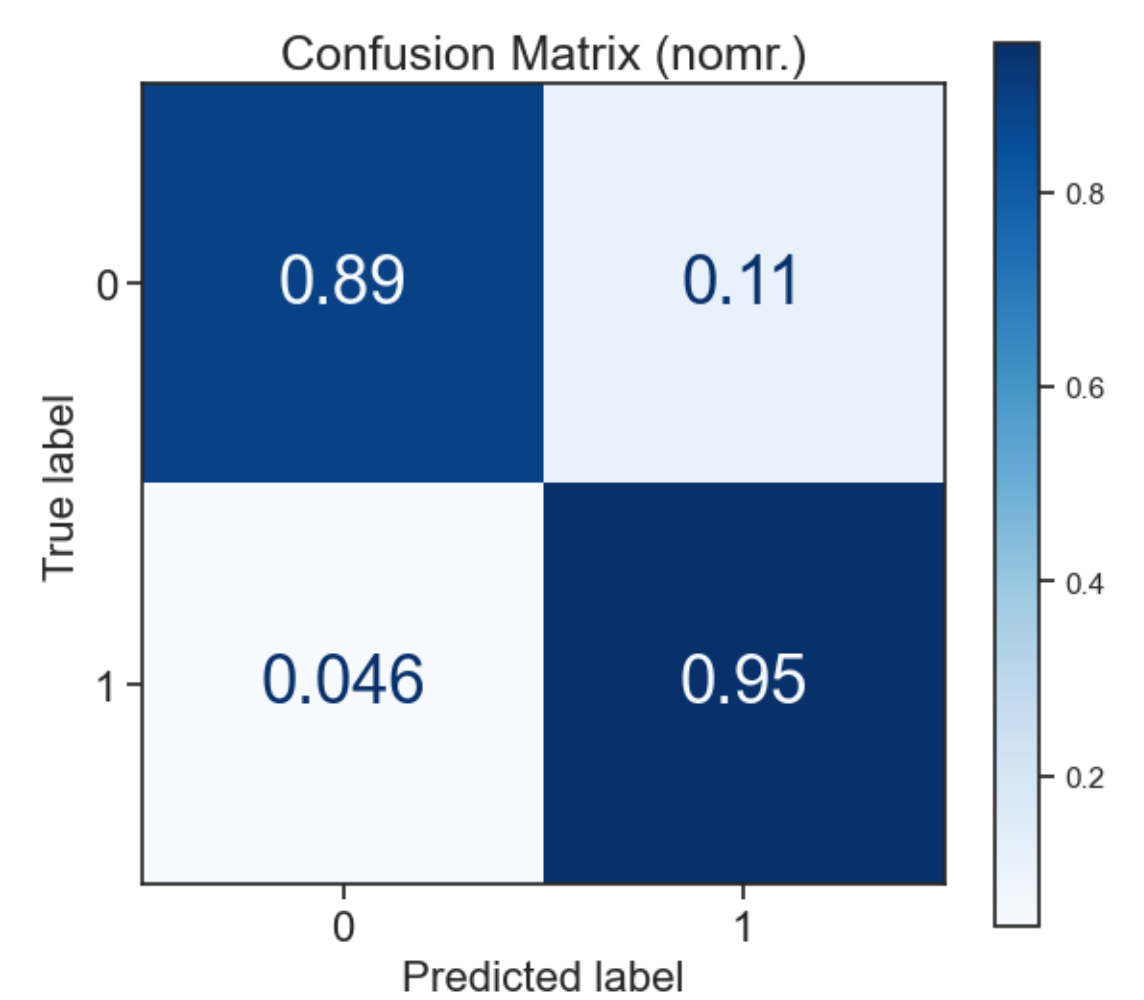
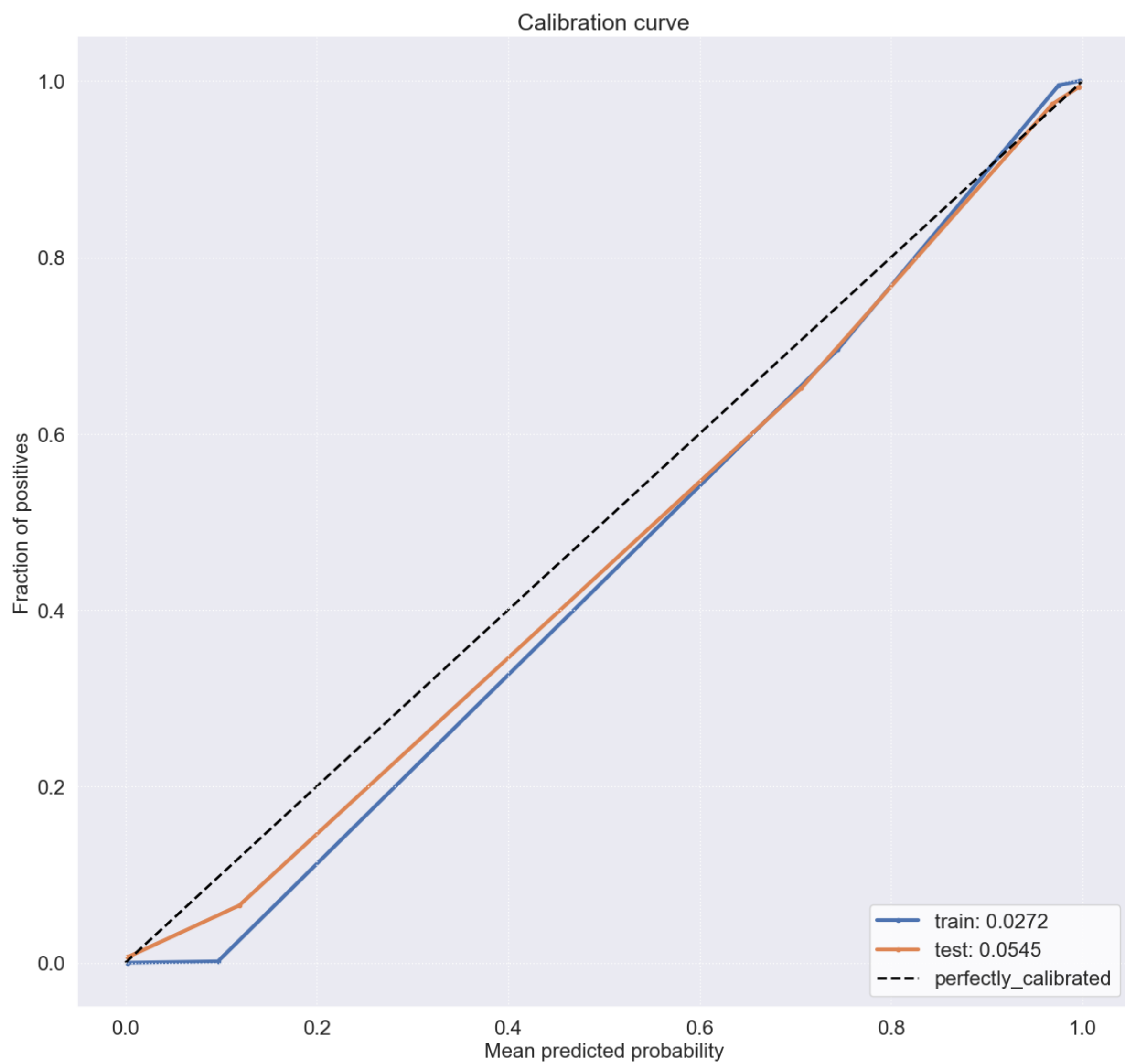
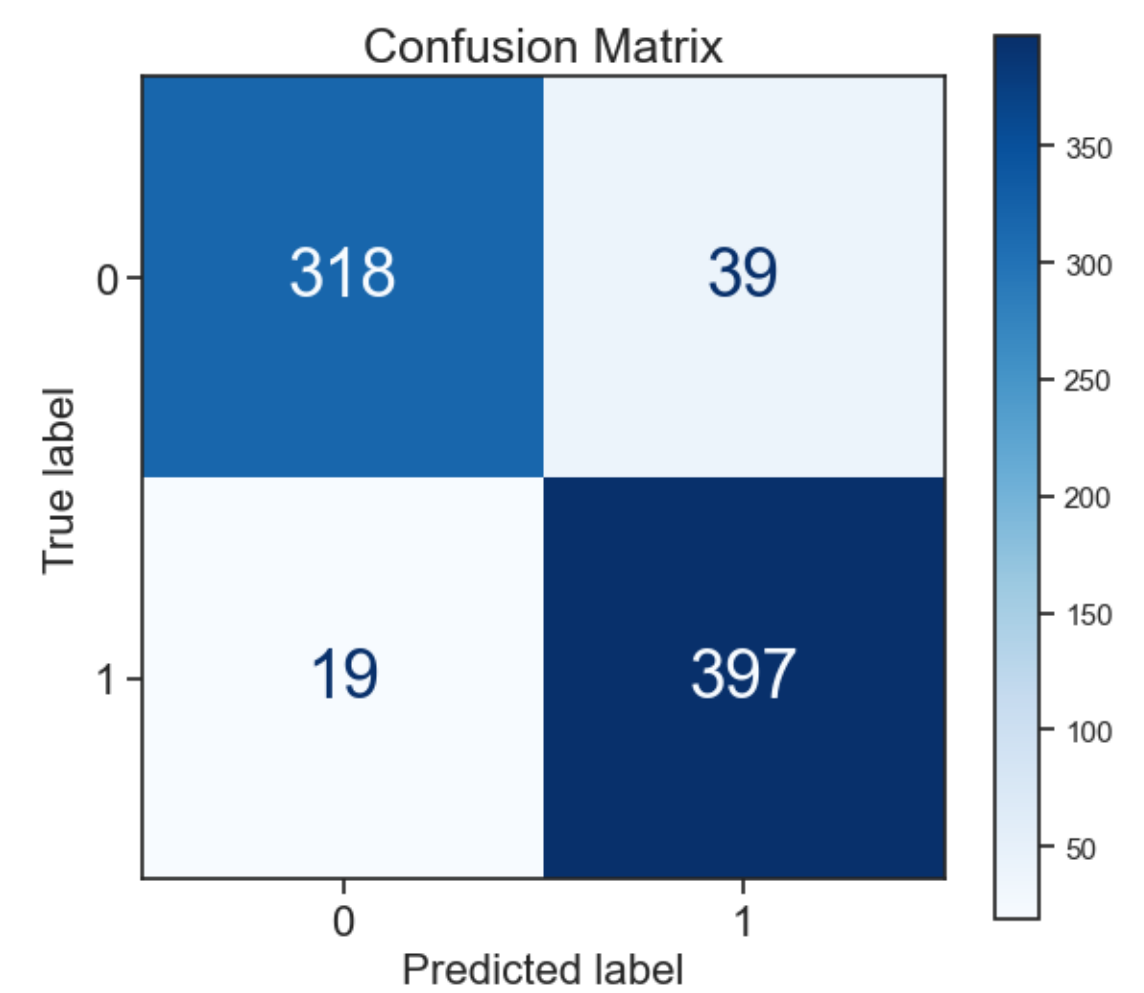


Metric	Train	Test
AUC	0.9982	0.9786
accuracy	0.9783	0.9327
balanced accuracy	0.9775	0.9323
recall_(sens)	0.9886	0.9375
specificity	0.9663	0.9272
precision	0.9716	0.9375
f1_score	0.9783	0.9327

Protein: Q15858 - metric: f1

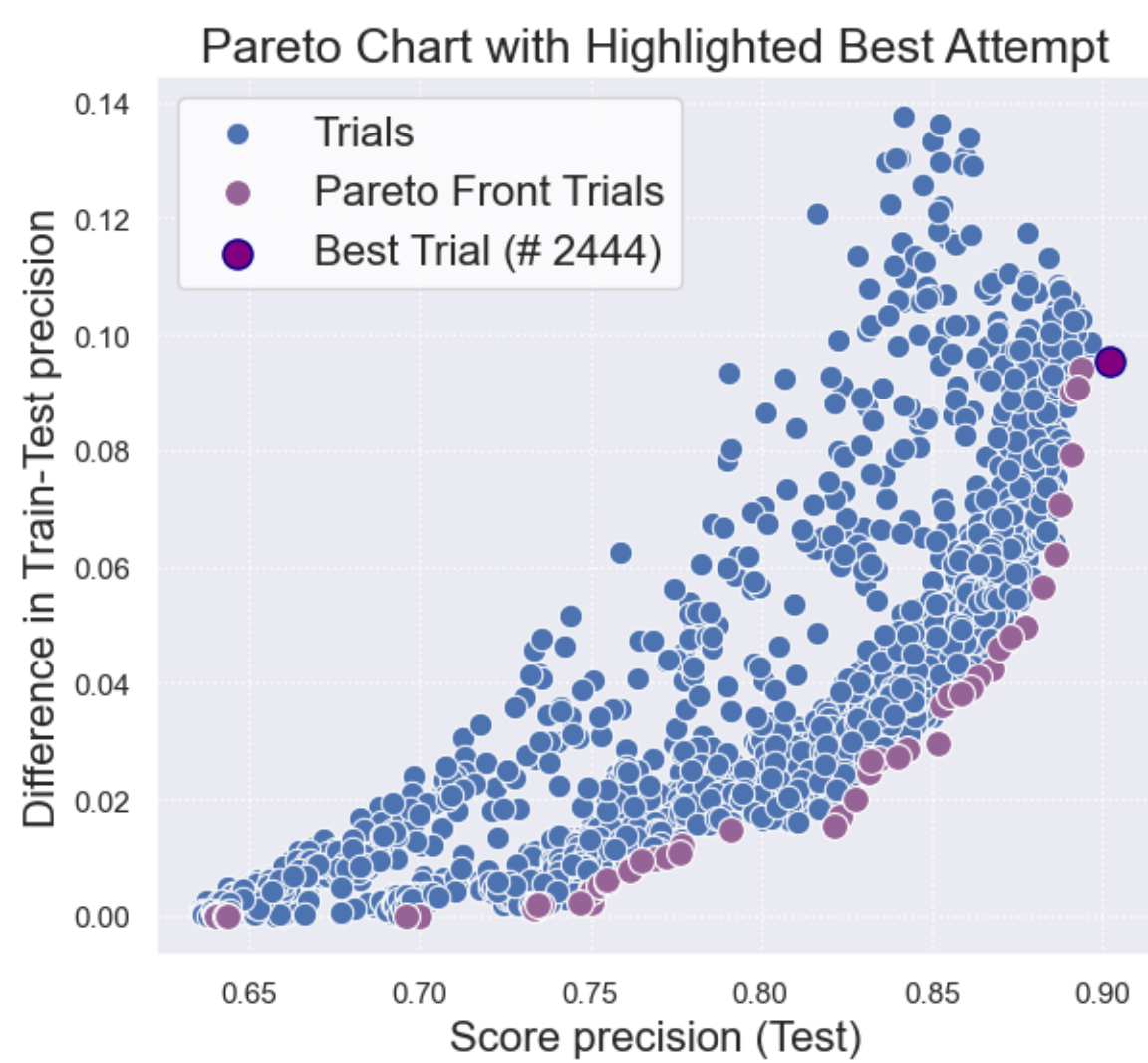
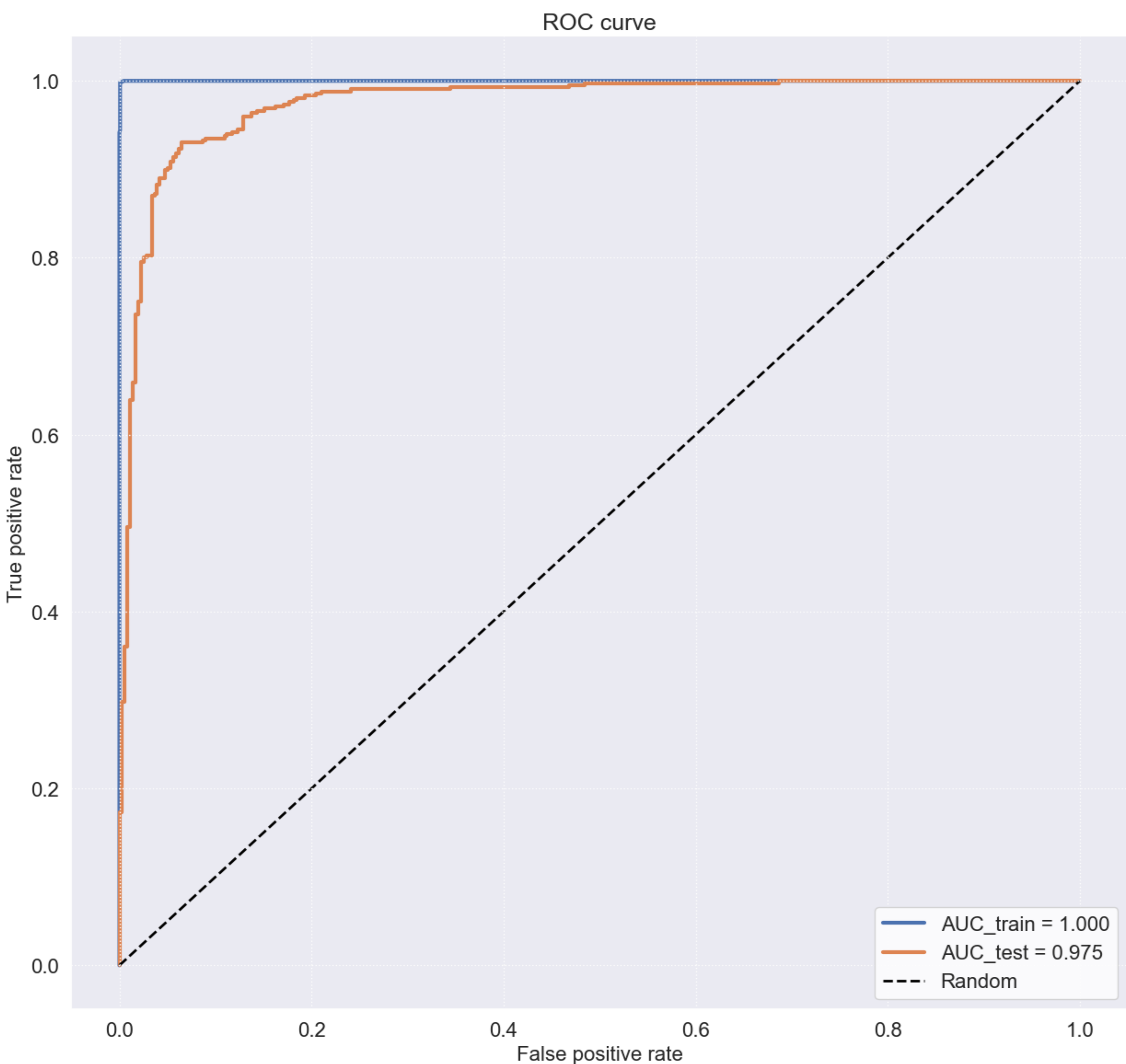
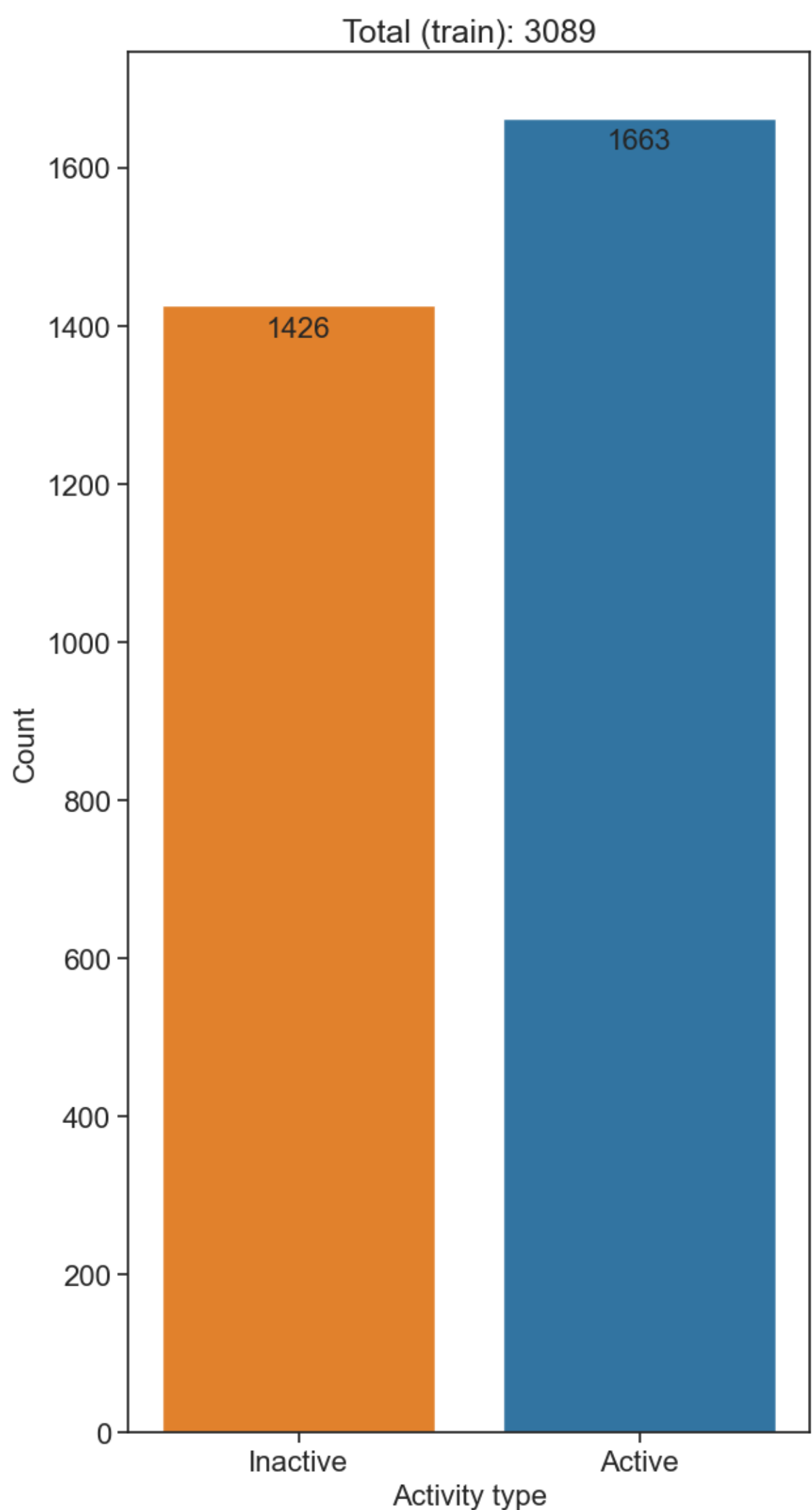


XGBoost Parameters	Value
alpha	0.5619
colsample_bytree	0.586
gamma	0.7775
lambda	0.0852
learning_rate	0.1151
max_depth	8.0
min_child_weight	7.0
n_estimators	522.0
reg_alpha	0.3414
reg_lambda	0.8676
scale_pos_weight	1.9112
subsample	0.7813

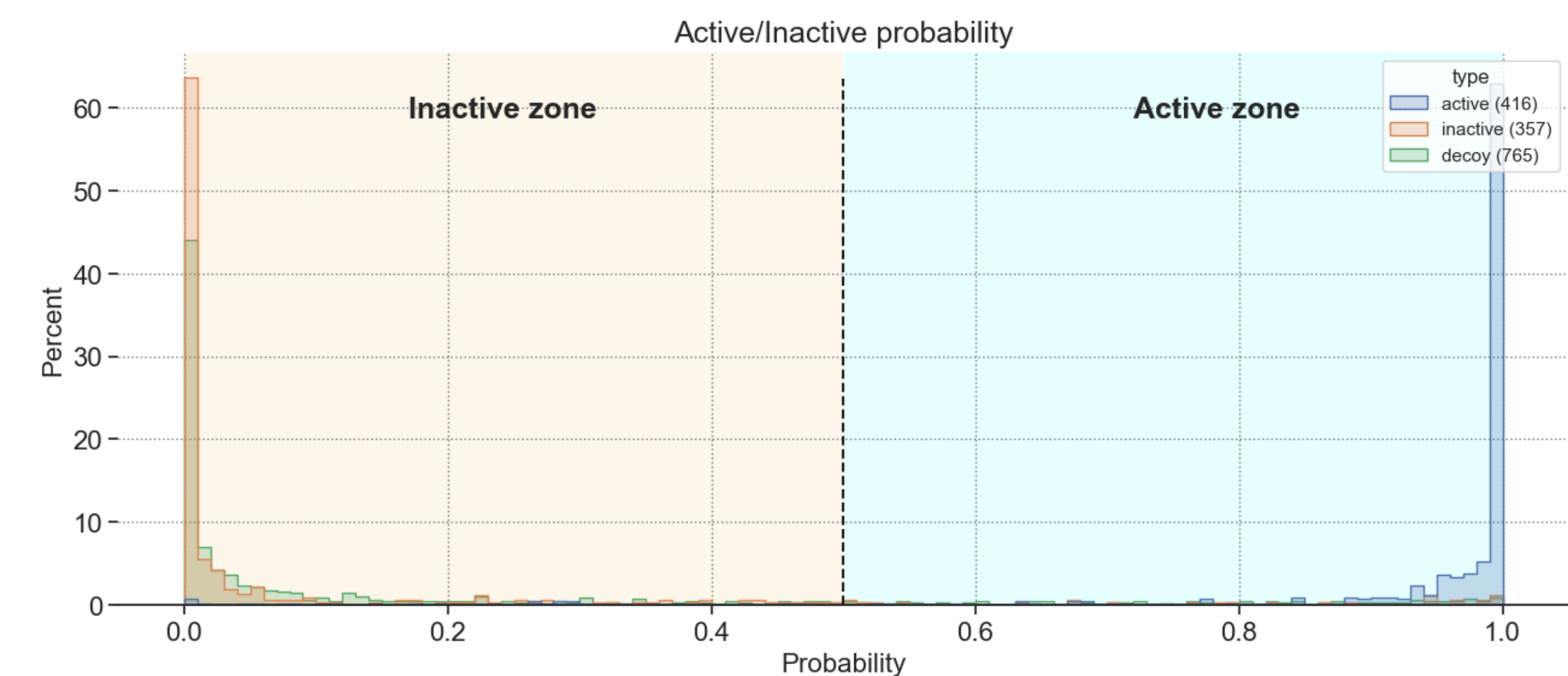
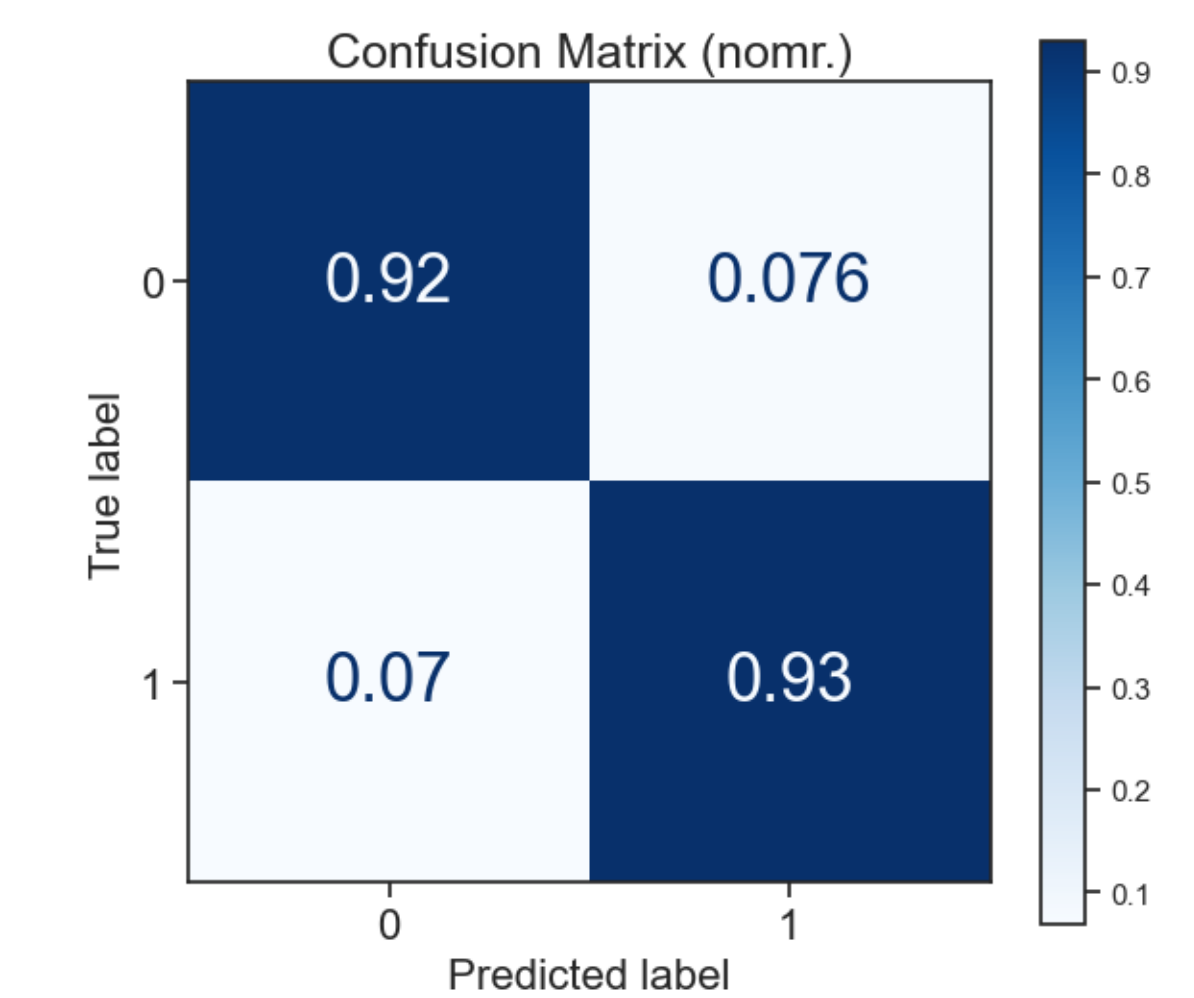
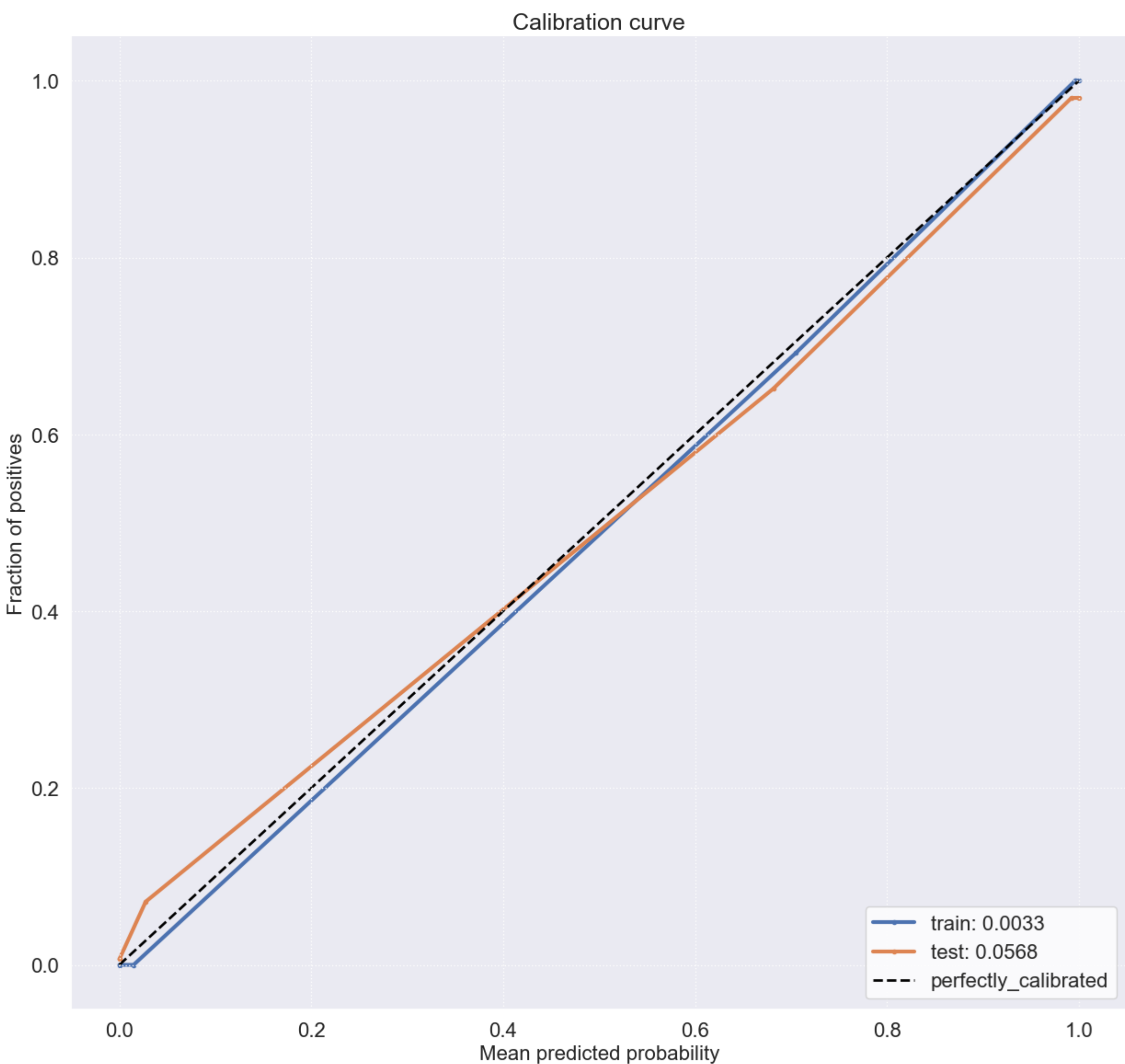
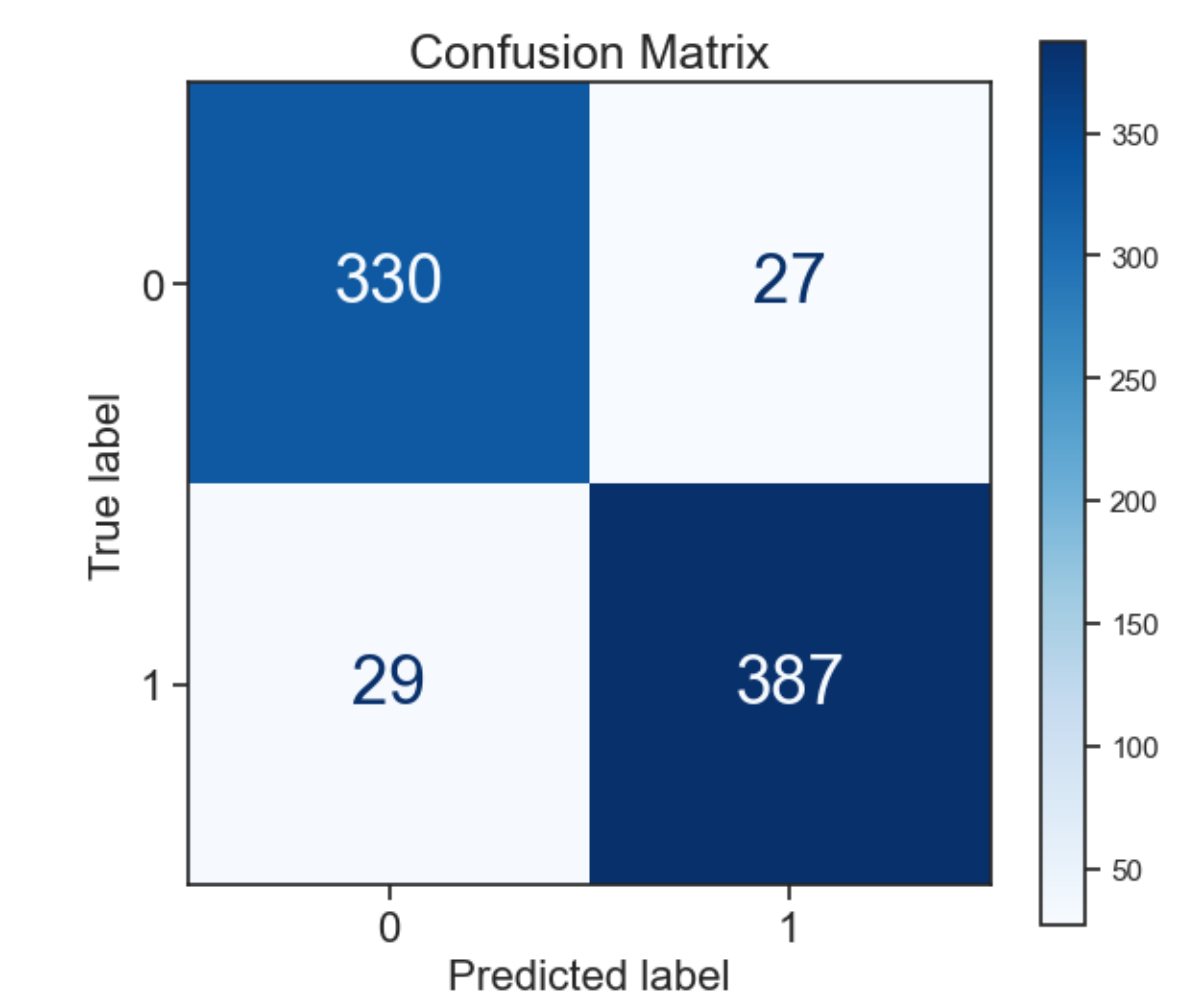


Metric	Train	Test
AUC	0.997	0.9789
accuracy	0.9657	0.925
balanced accuracy	0.9634	0.9225
recall_(sens)	0.9934	0.9543
specificity	0.9334	0.8908
precision	0.9456	0.9106
f1_score	0.9656	0.9248

Protein: Q15858 - metric: precision

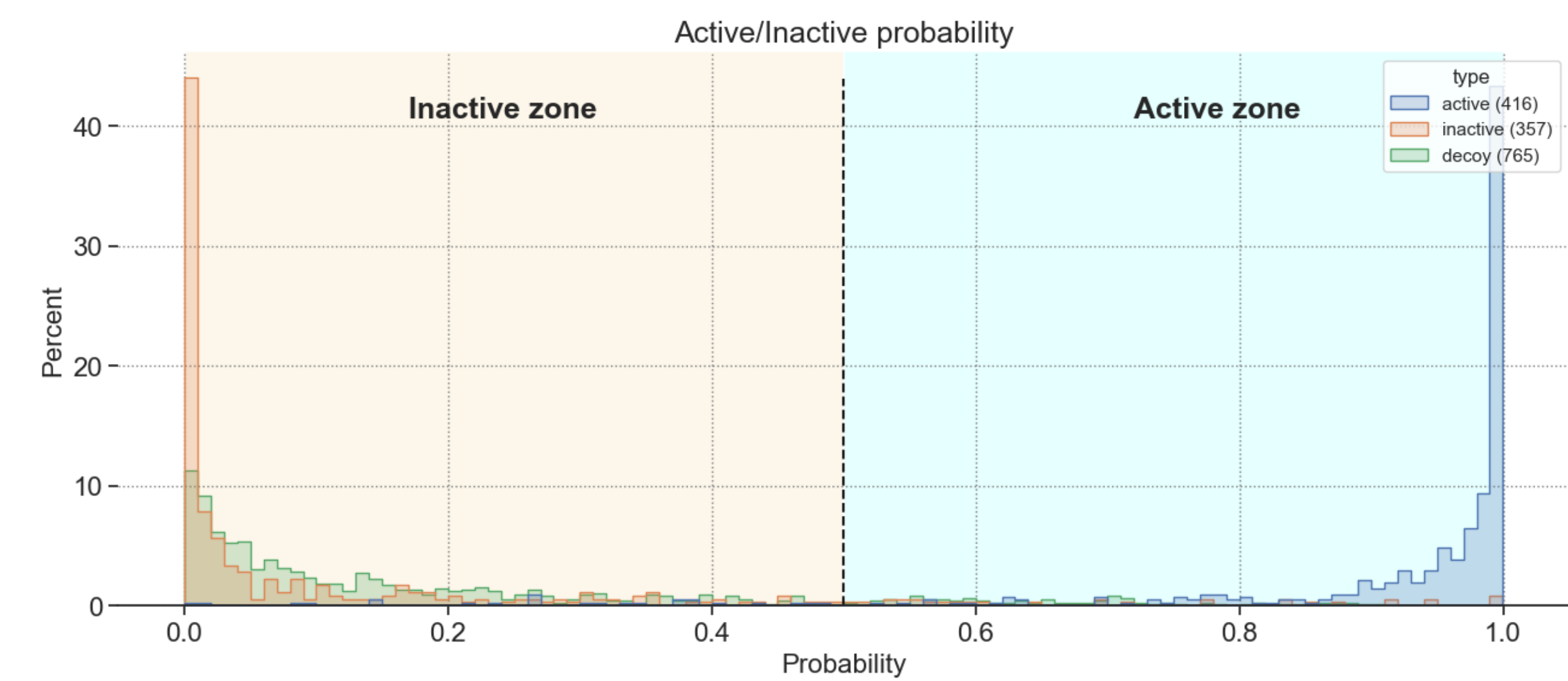
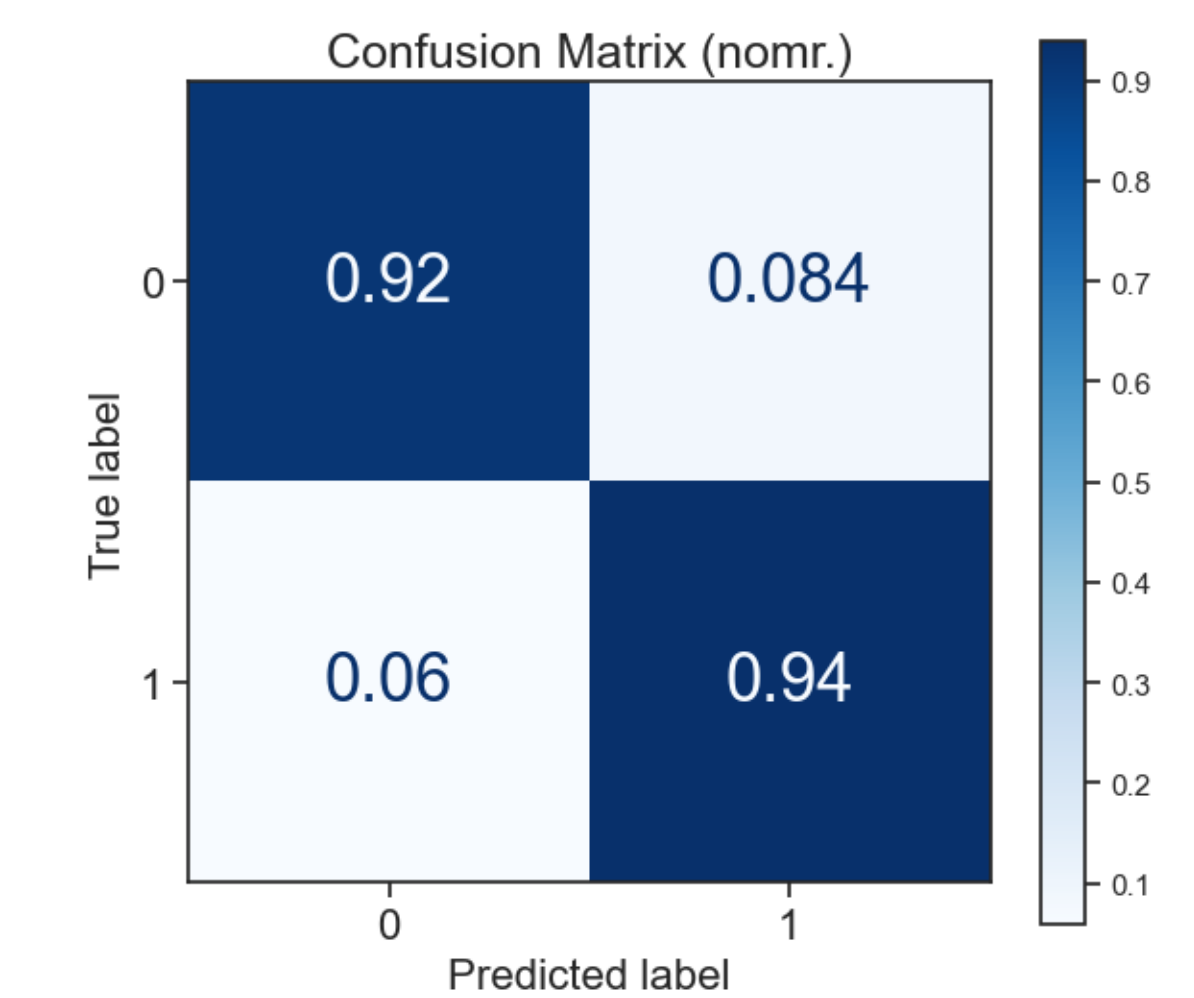
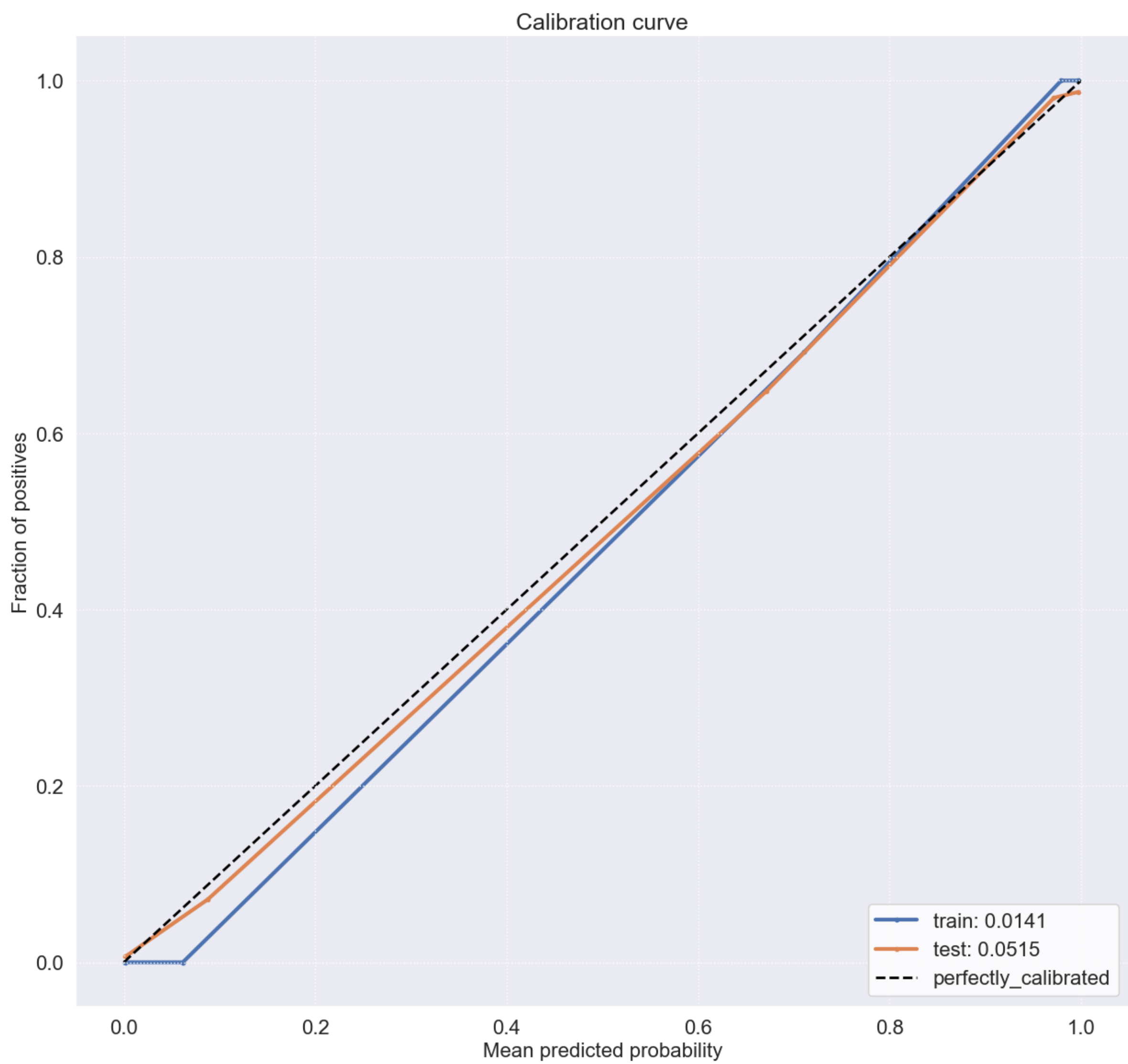
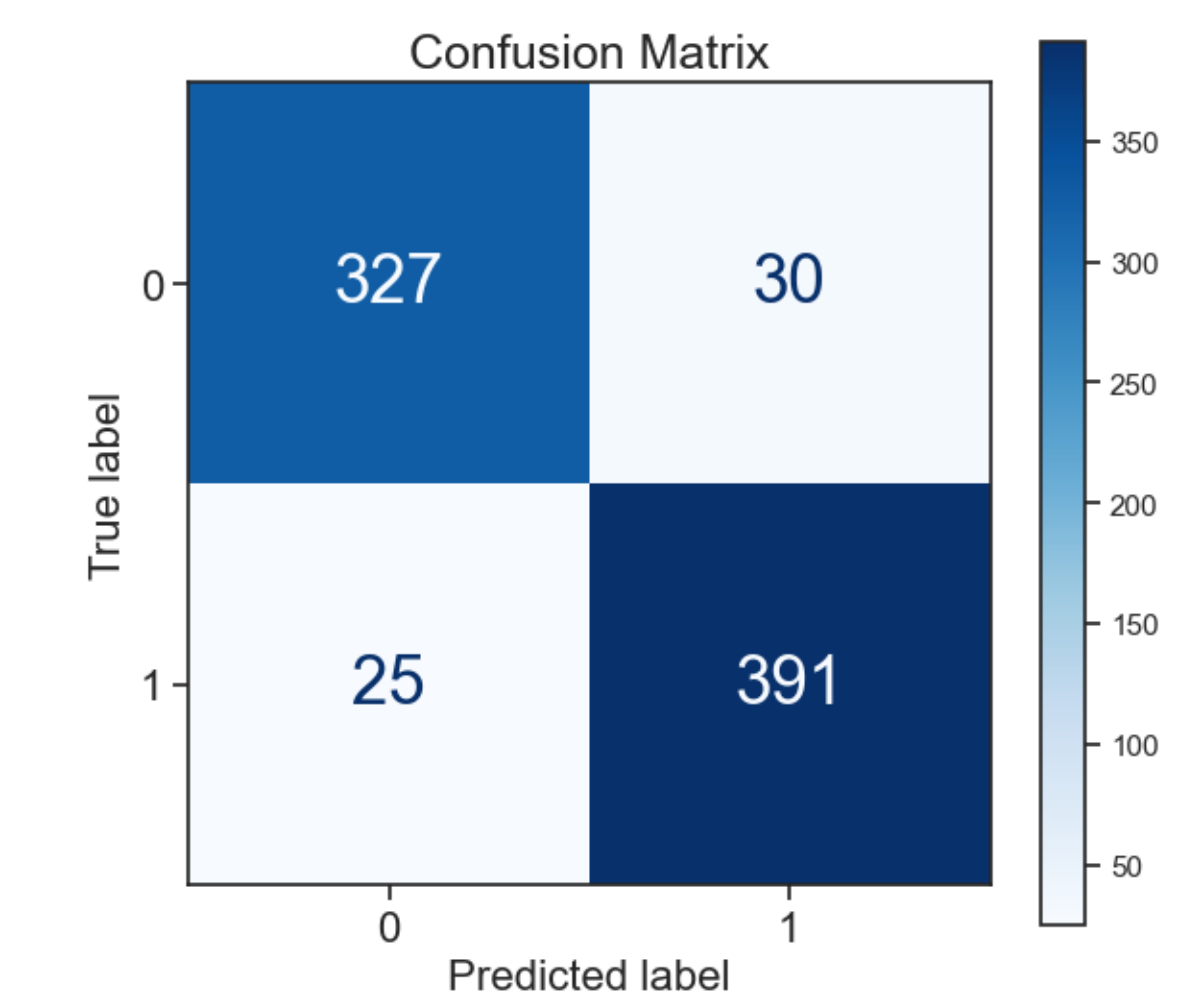
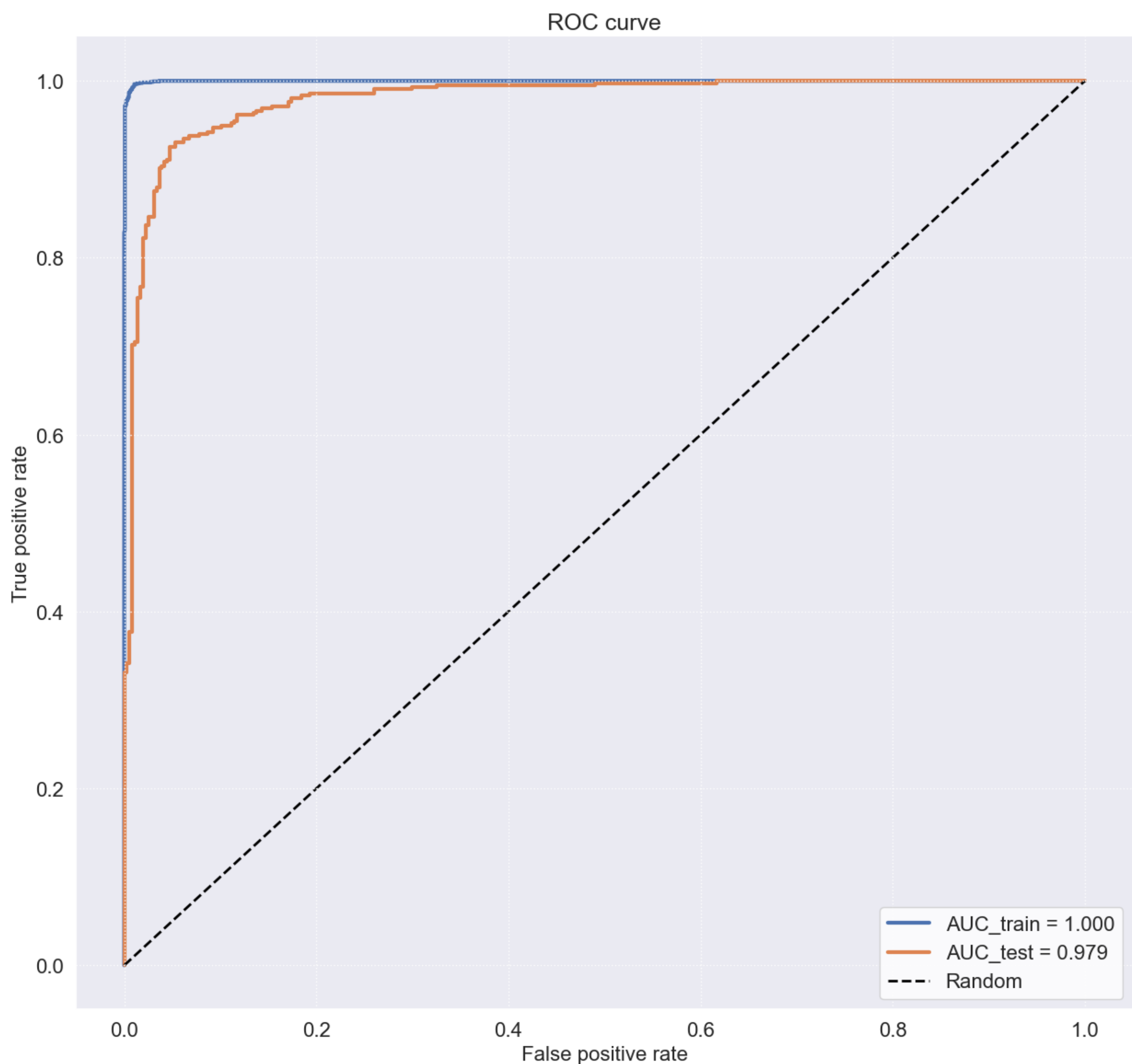
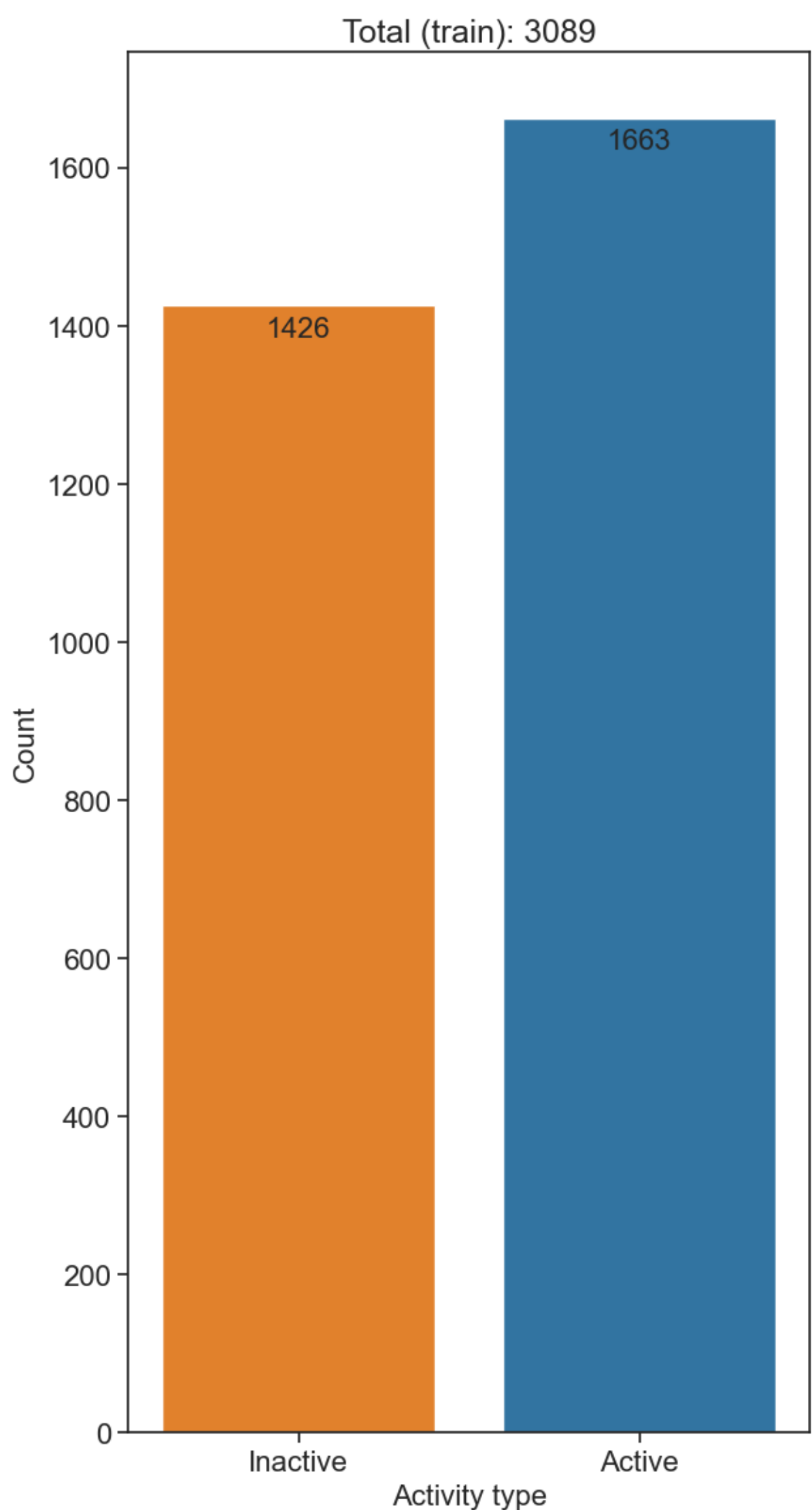


XGBoost Parameters	Value
alpha	4.3526
colsample_bytree	0.6306
gamma	0.0343
lambda	3.3901
learning_rate	0.3818
max_depth	7.0
min_child_weight	2.0
n_estimators	699.0
reg_alpha	0.9155
reg_lambda	0.5837
scale_pos_weight	1.7113
subsample	0.5097



Metric	Train	Test
AUC	1.0	0.9745
accuracy	0.9981	0.9276
balanced accuracy	0.998	0.9273
recall_(sens)	0.9988	0.9303
specificity	0.9972	0.9244
precision	0.9976	0.9348
f1_score	0.9981	0.9276

Protein: Q15858 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9997	0.979
accuracy	0.9896	0.9288
balanced accuracy	0.9889	0.9279
recall_(sens)	0.9982	0.9399
specificity	0.9797	0.916
precision	0.9828	0.9287
f1_score	0.9896	0.9288