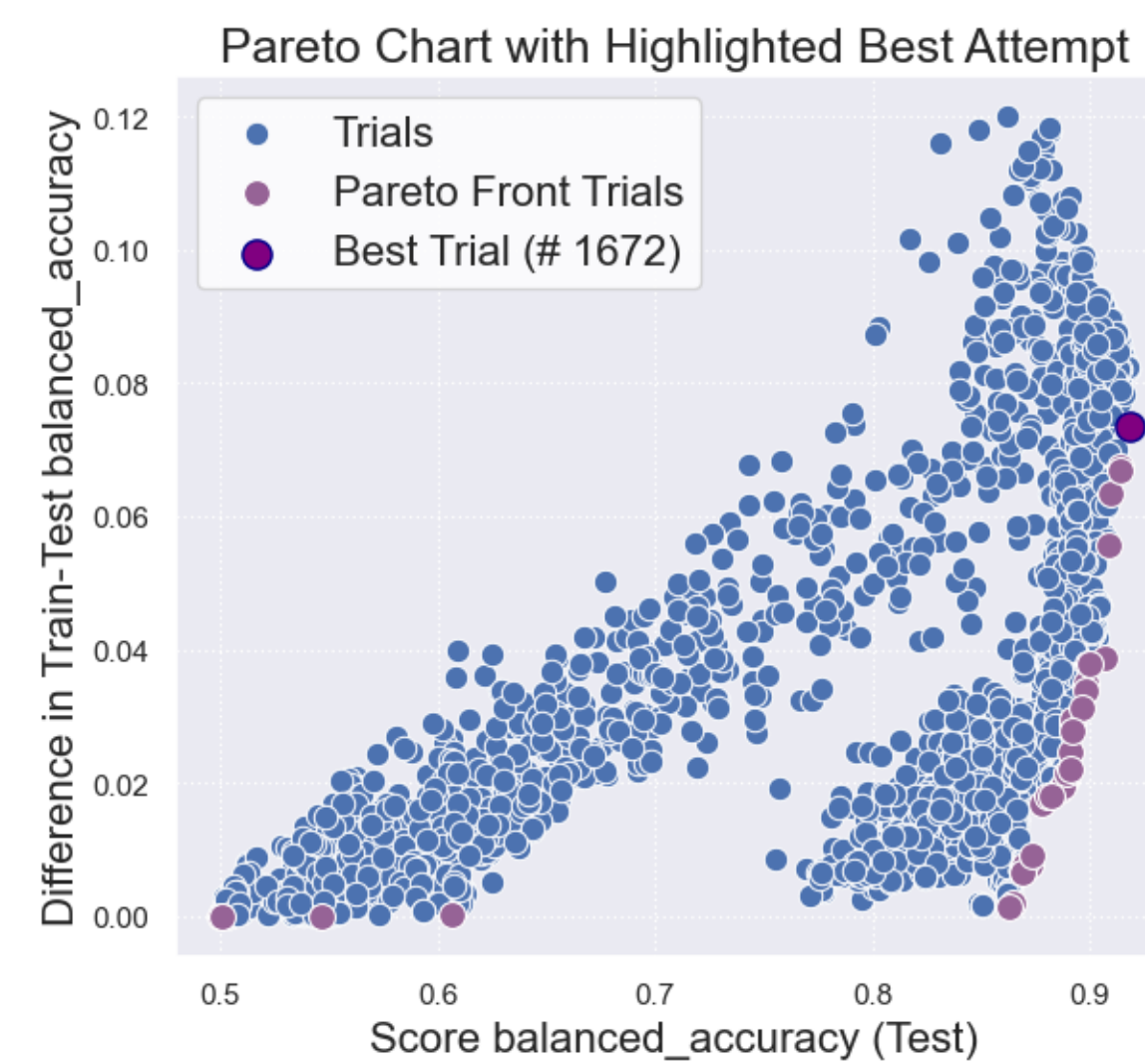
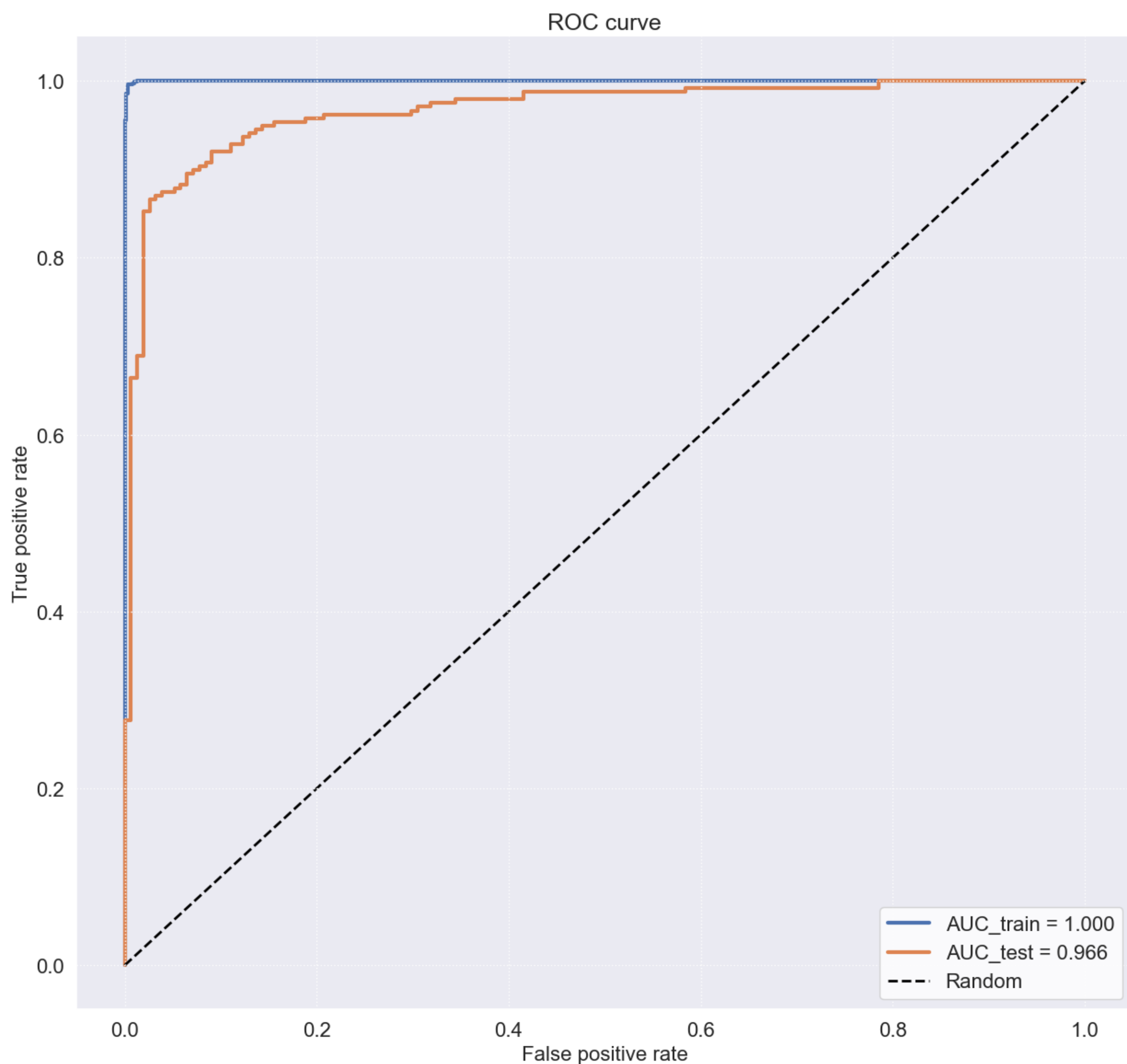
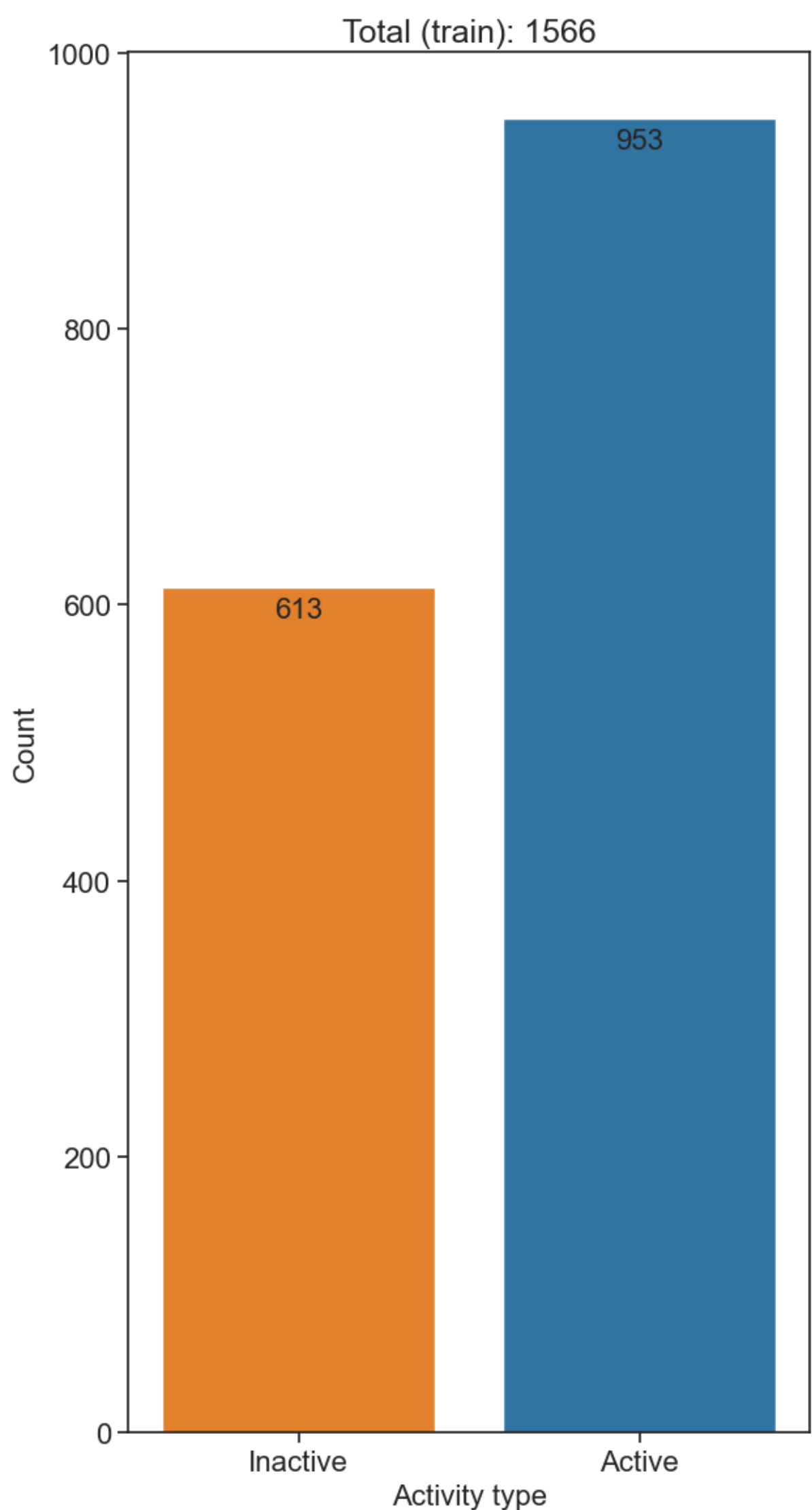
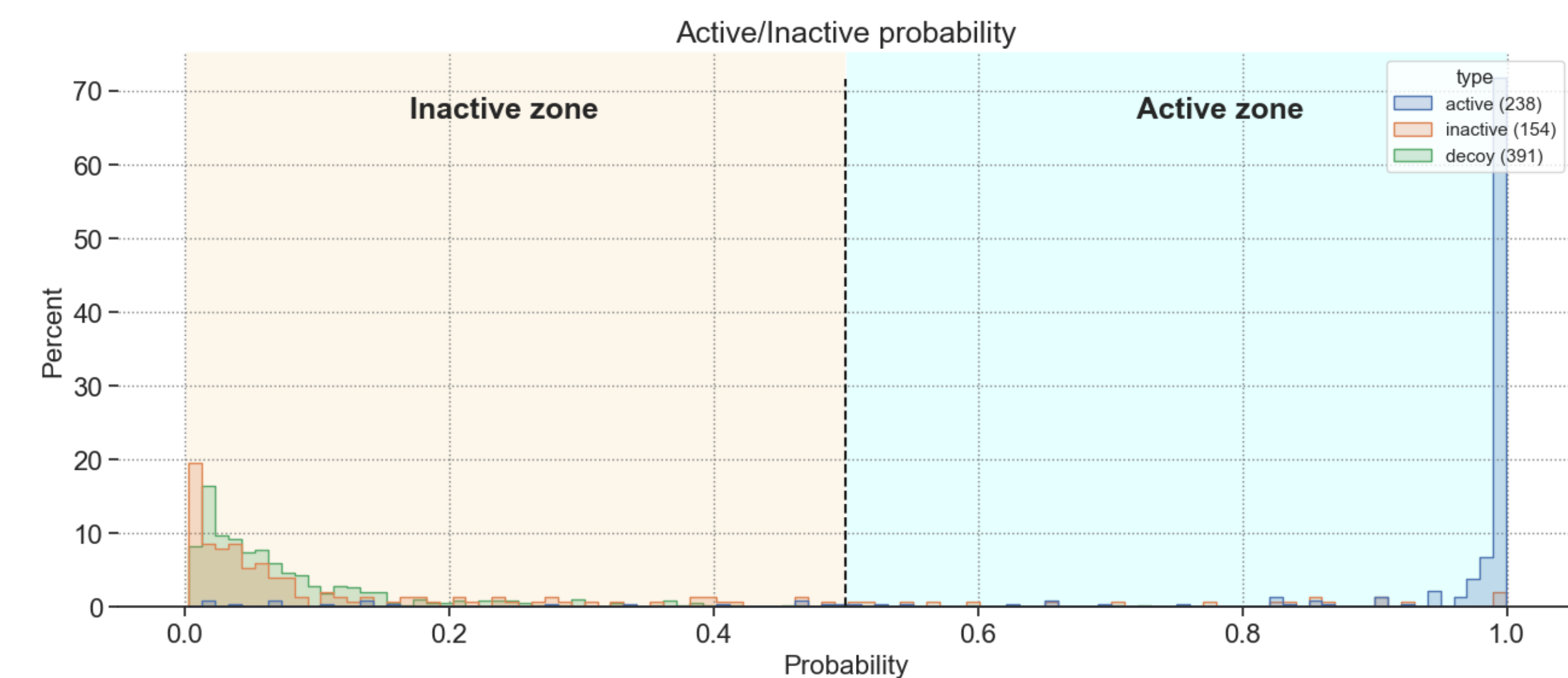
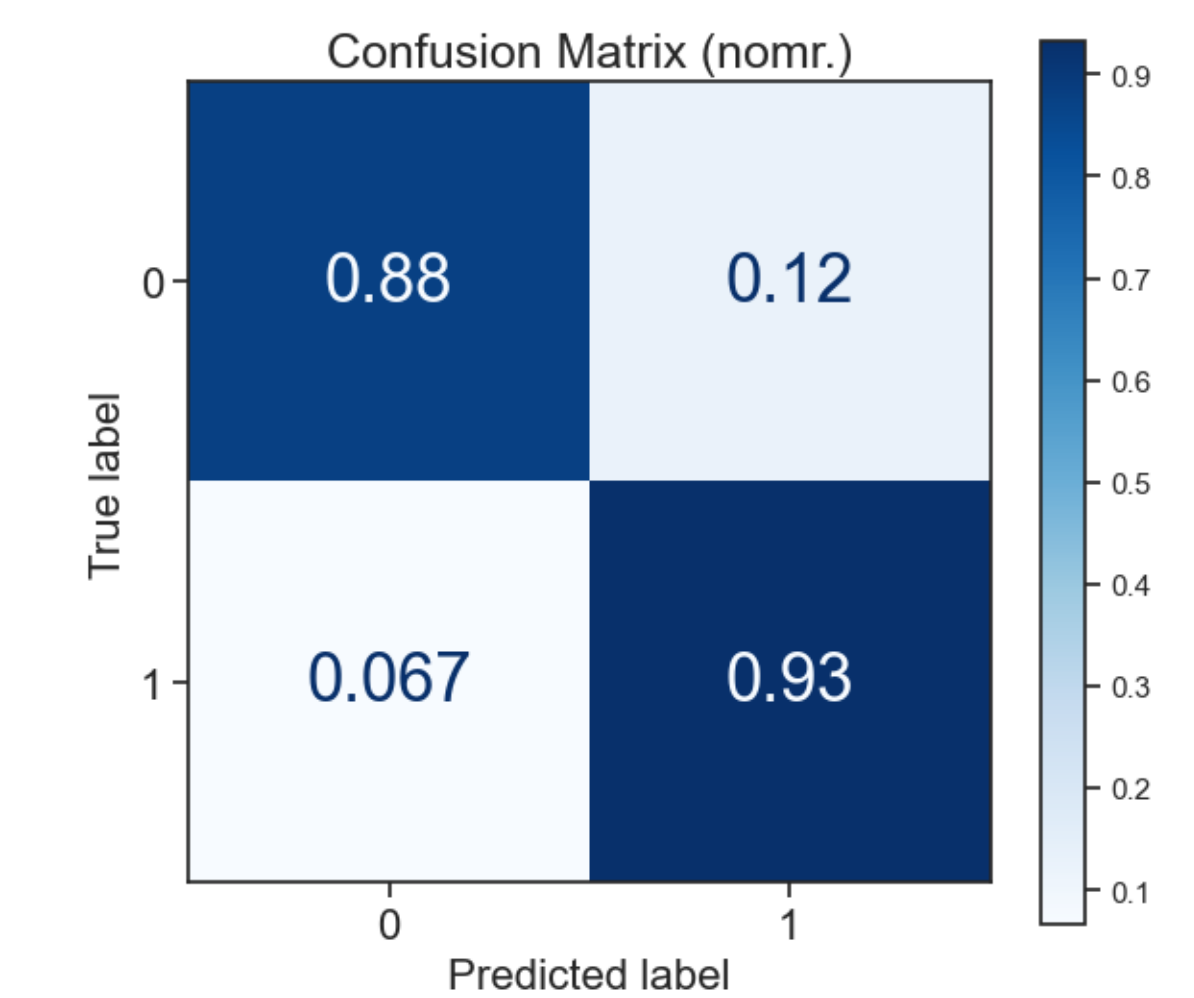
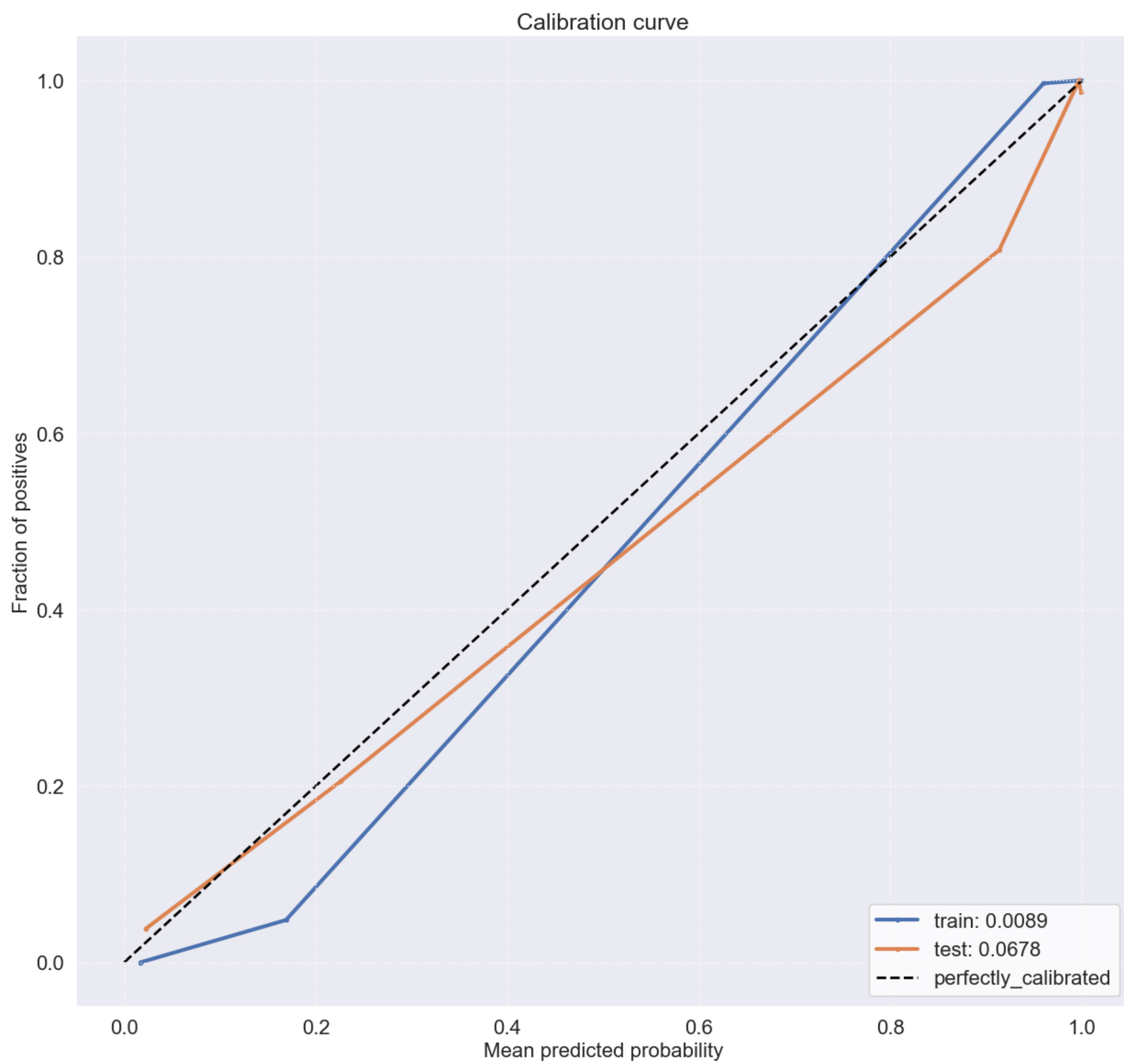
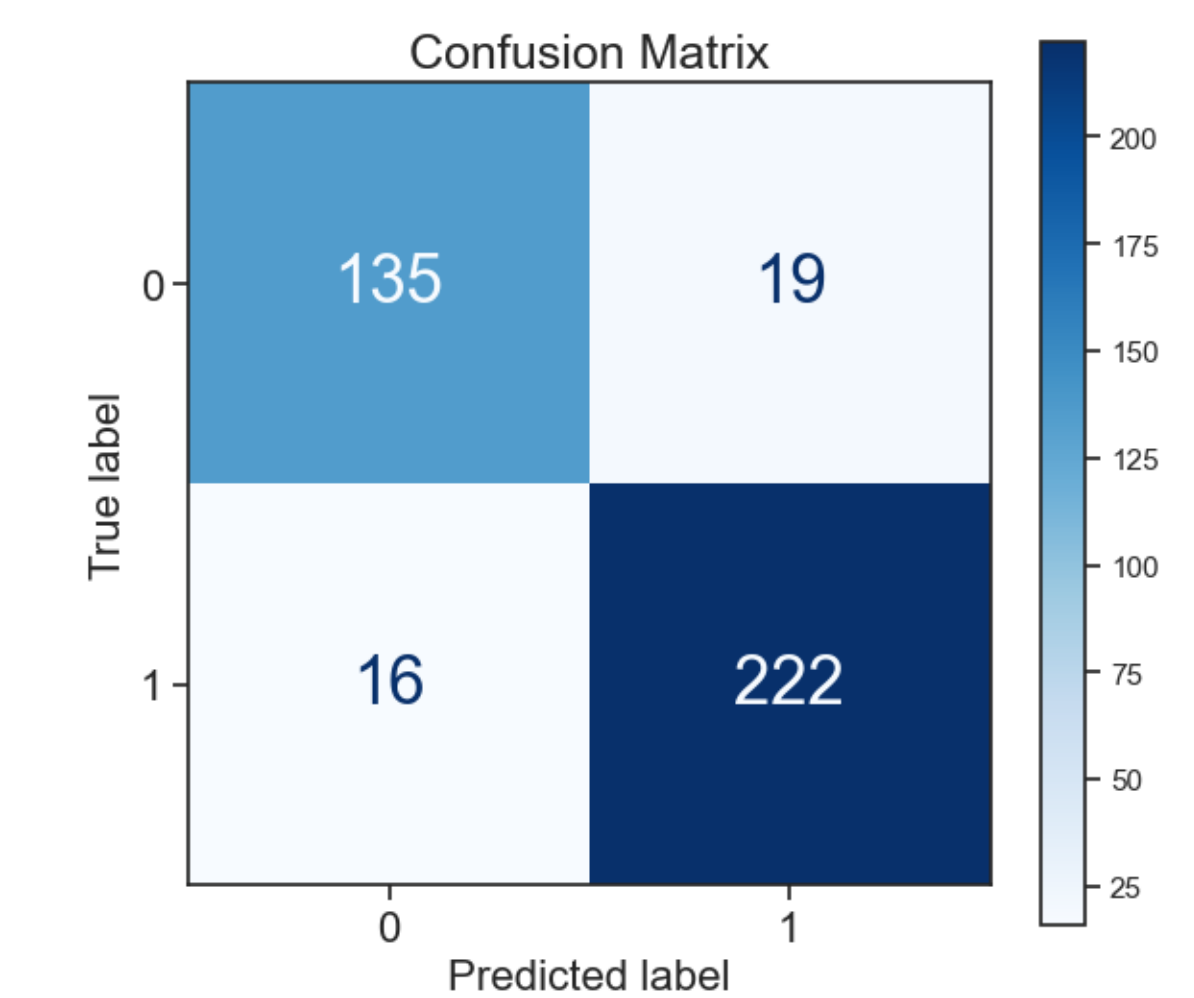


Protein: P00519 - metric: balanced_accuracy

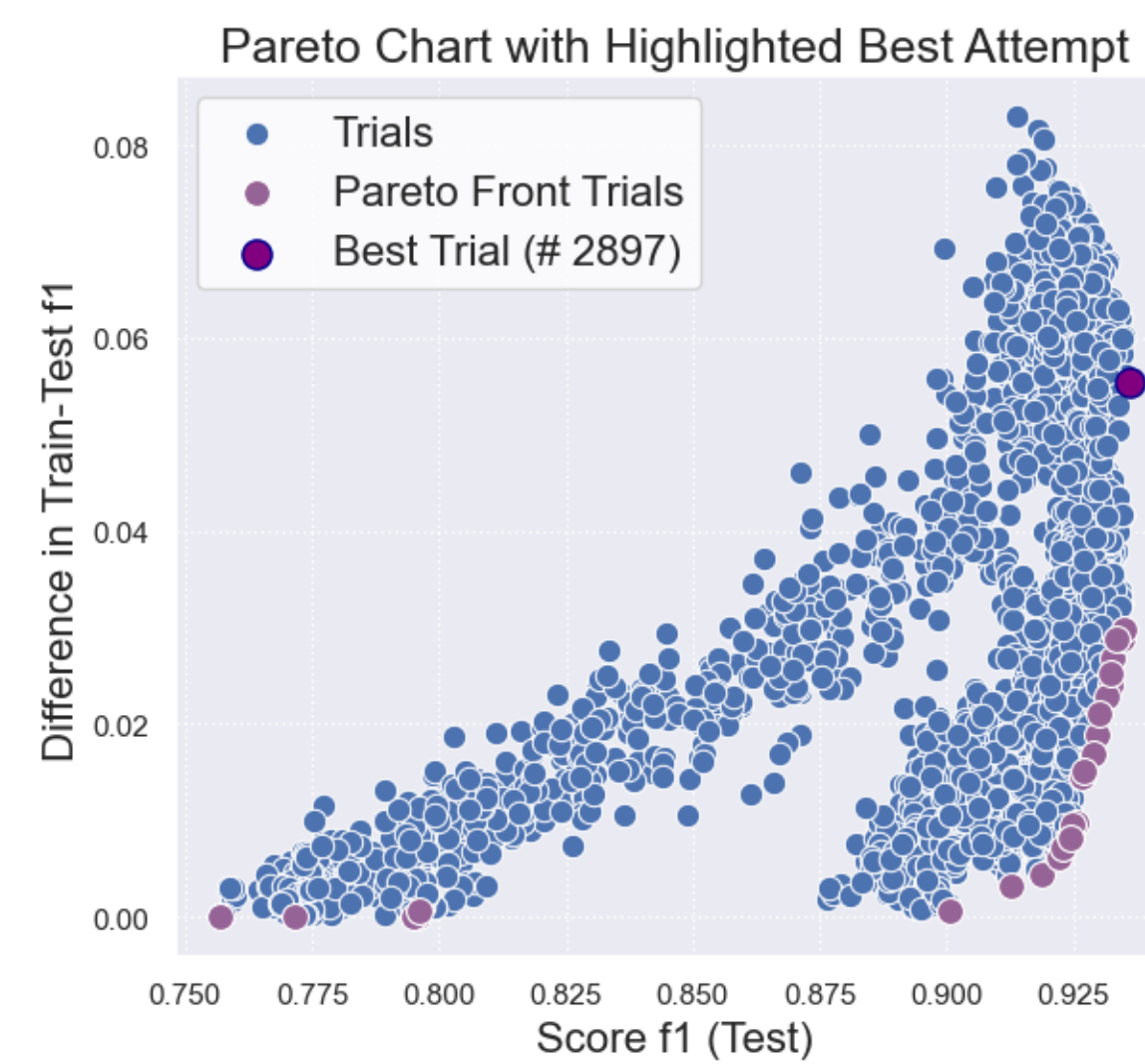
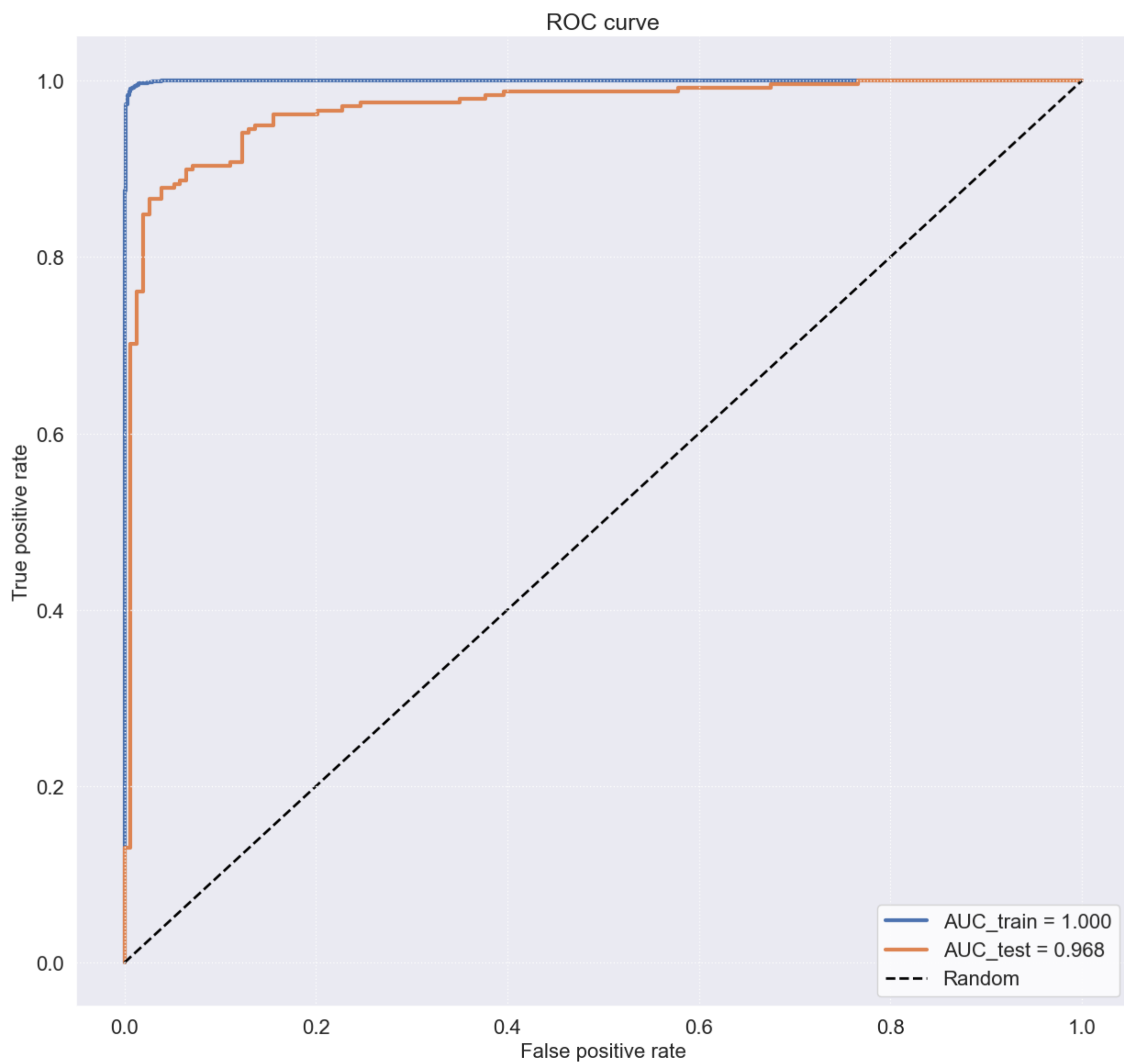
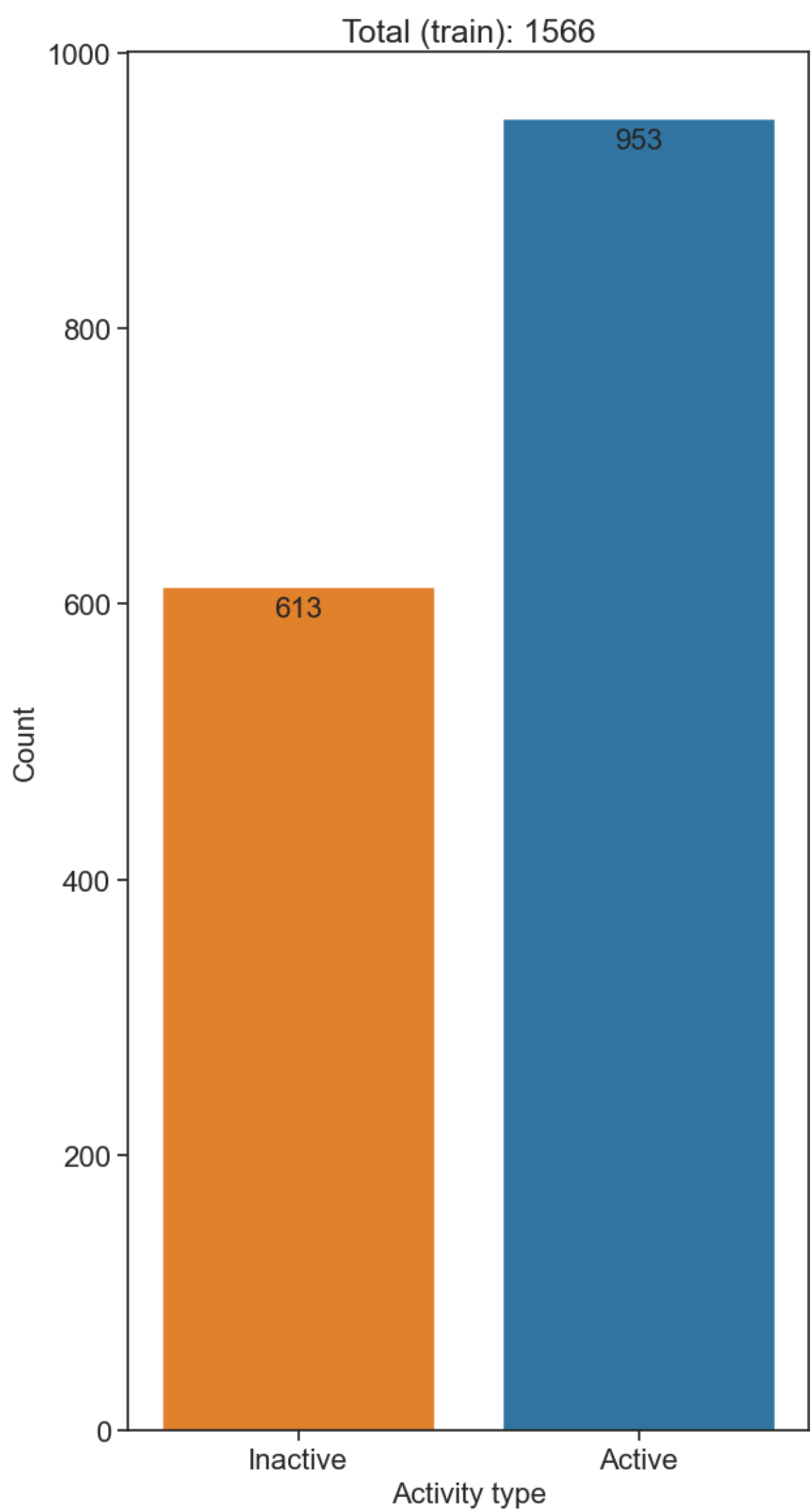


XGBoost Parameters	Value
alpha	2.7297
colsample_bytree	0.6475
gamma	0.255
lambda	2.8088
learning_rate	0.2463
max_depth	8.0
min_child_weight	1.0
n_estimators	171.0
reg_alpha	0.7949
reg_lambda	0.3378
scale_pos_weight	2.7085
subsample	0.9924

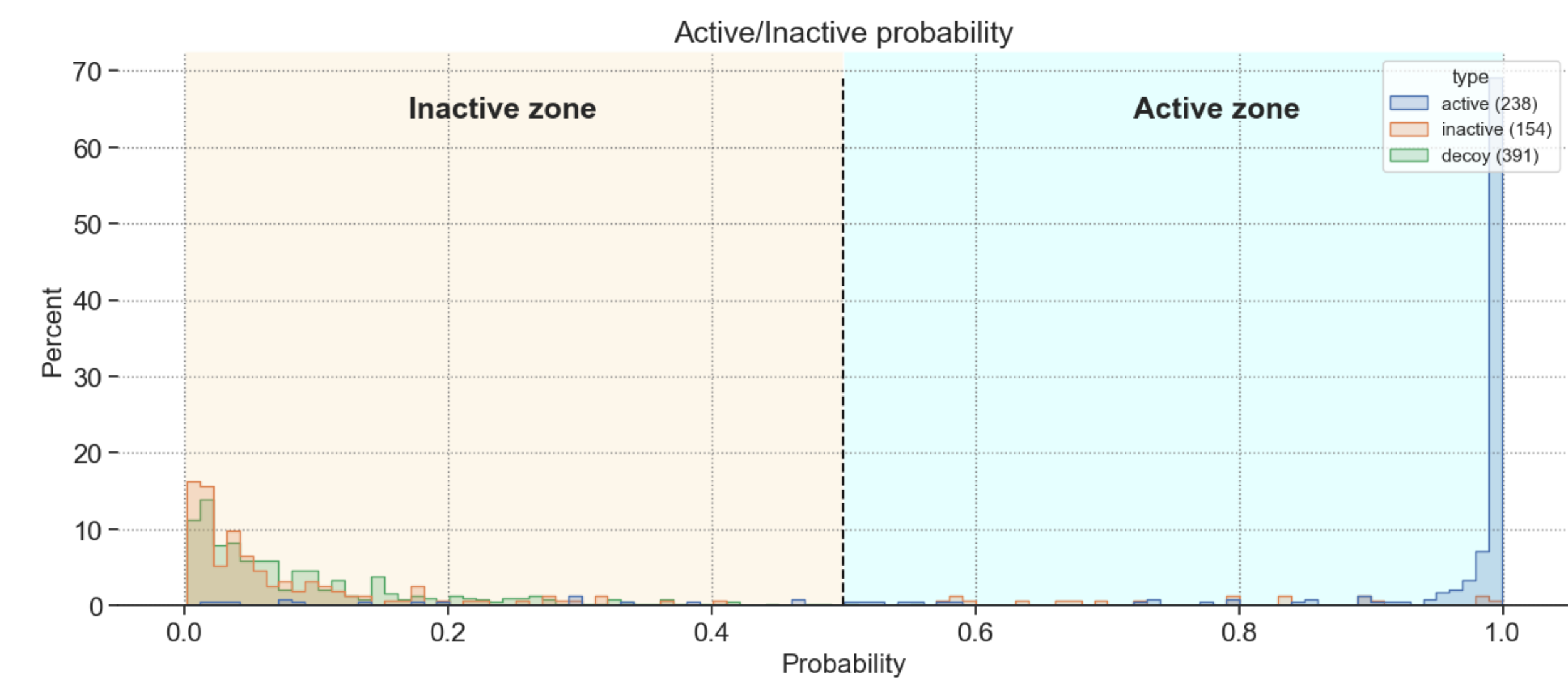
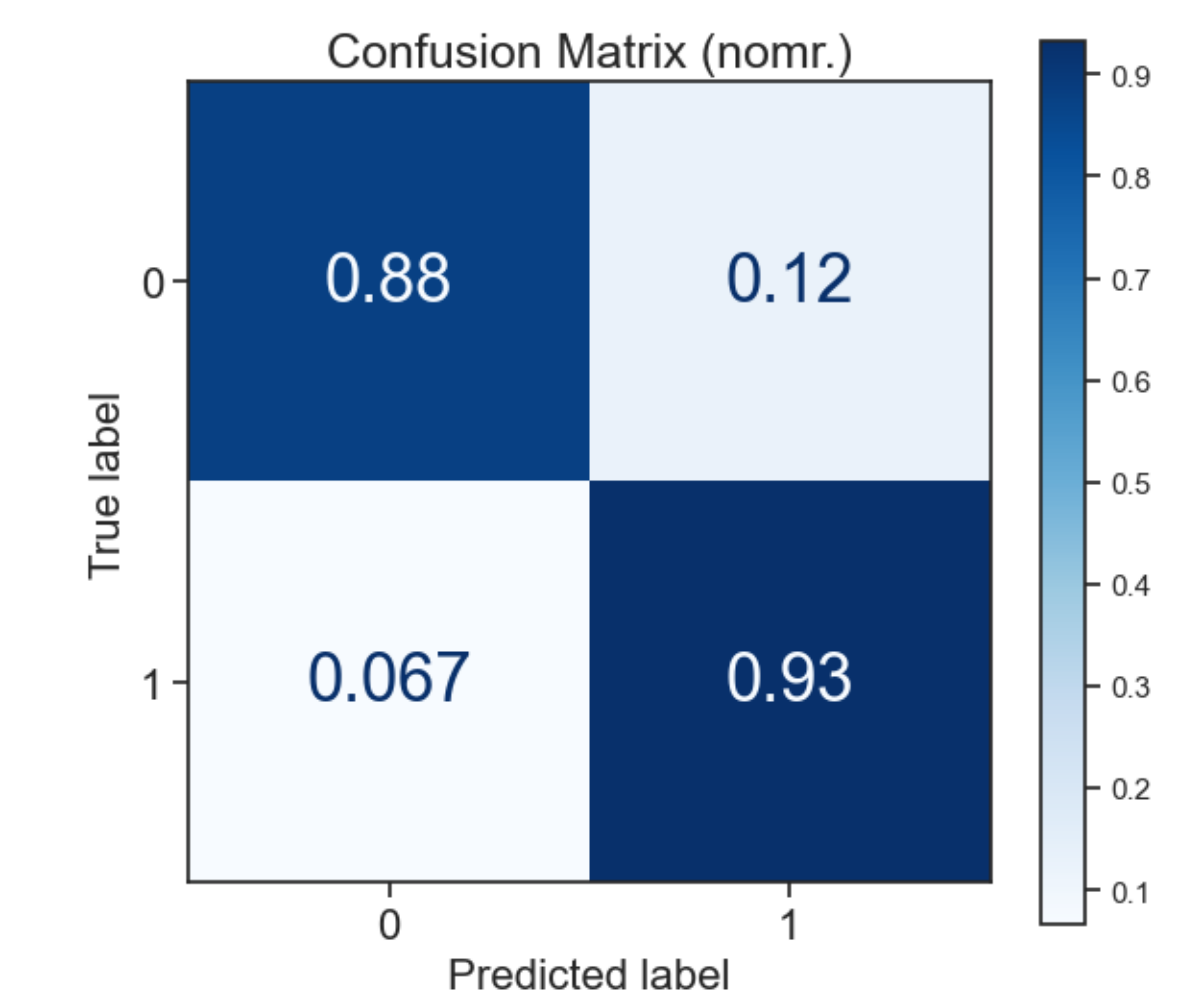
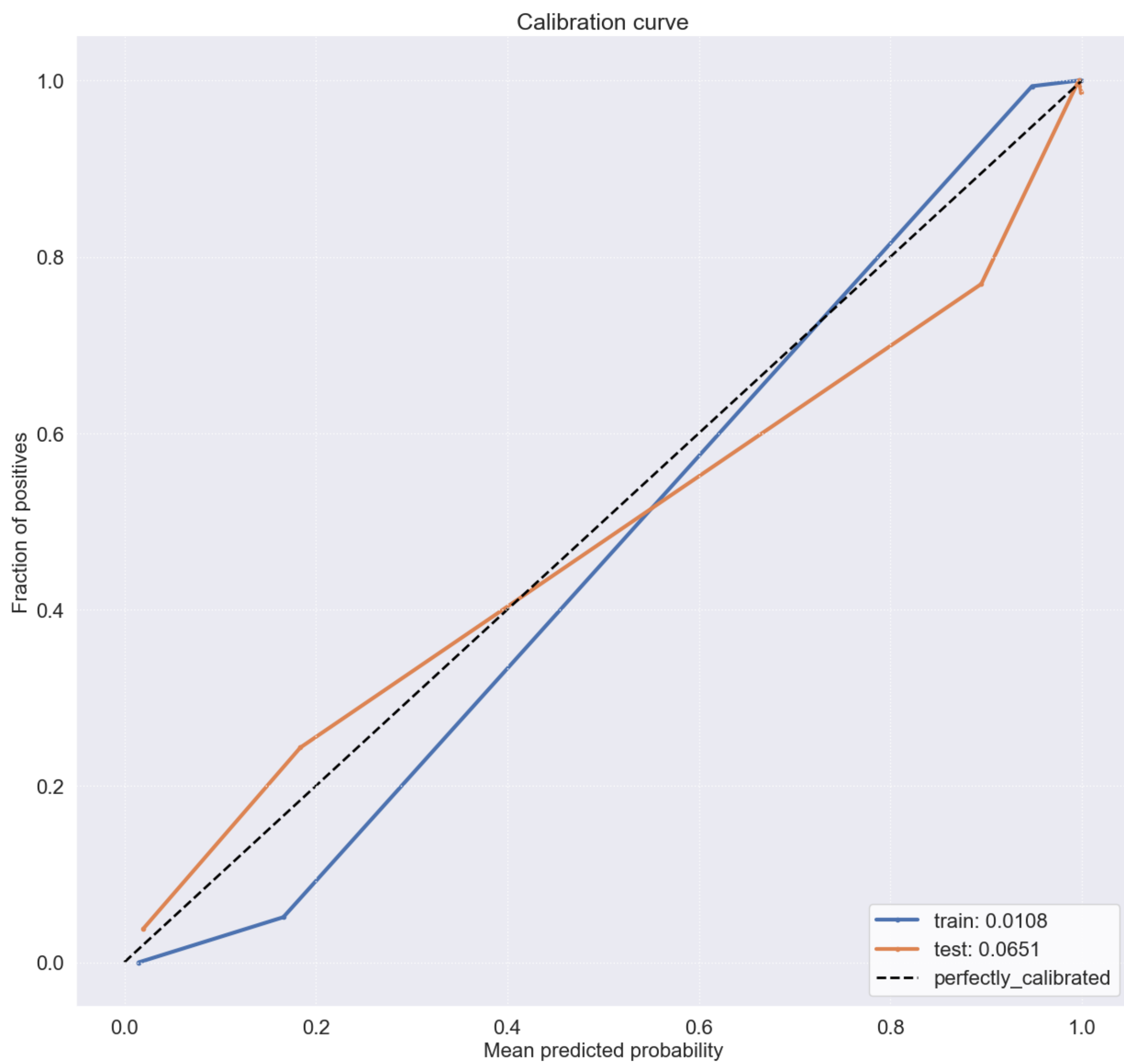
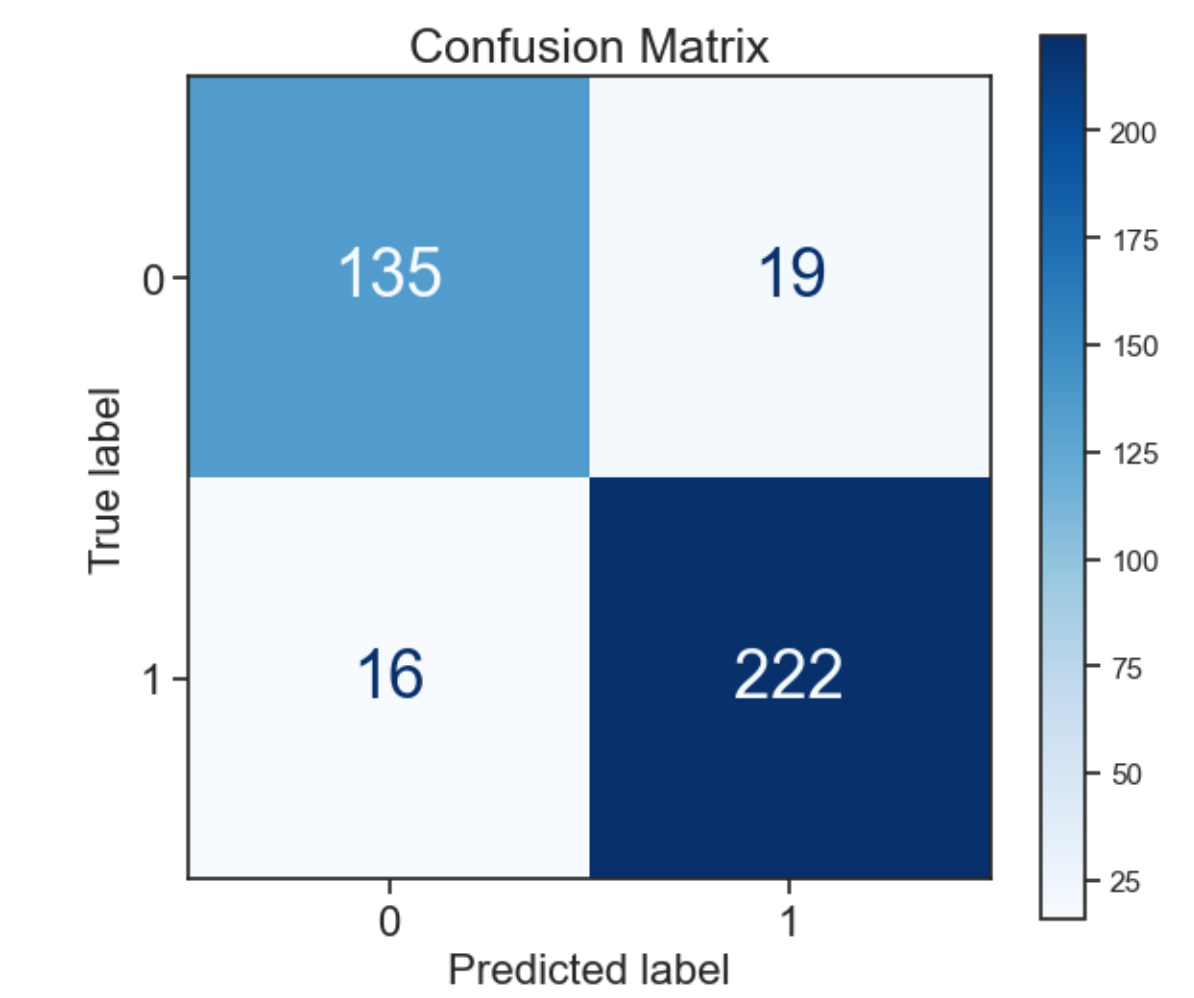


Metric	Train	Test
AUC	0.9999	0.9661
accuracy	0.9943	0.9107
balanced accuracy	0.9927	0.9047
recall_(sens)	1.0	0.9328
specificity	0.9853	0.8766
precision	0.9906	0.9212
f1_score	0.9942	0.9106

Protein: P00519 - metric: f1

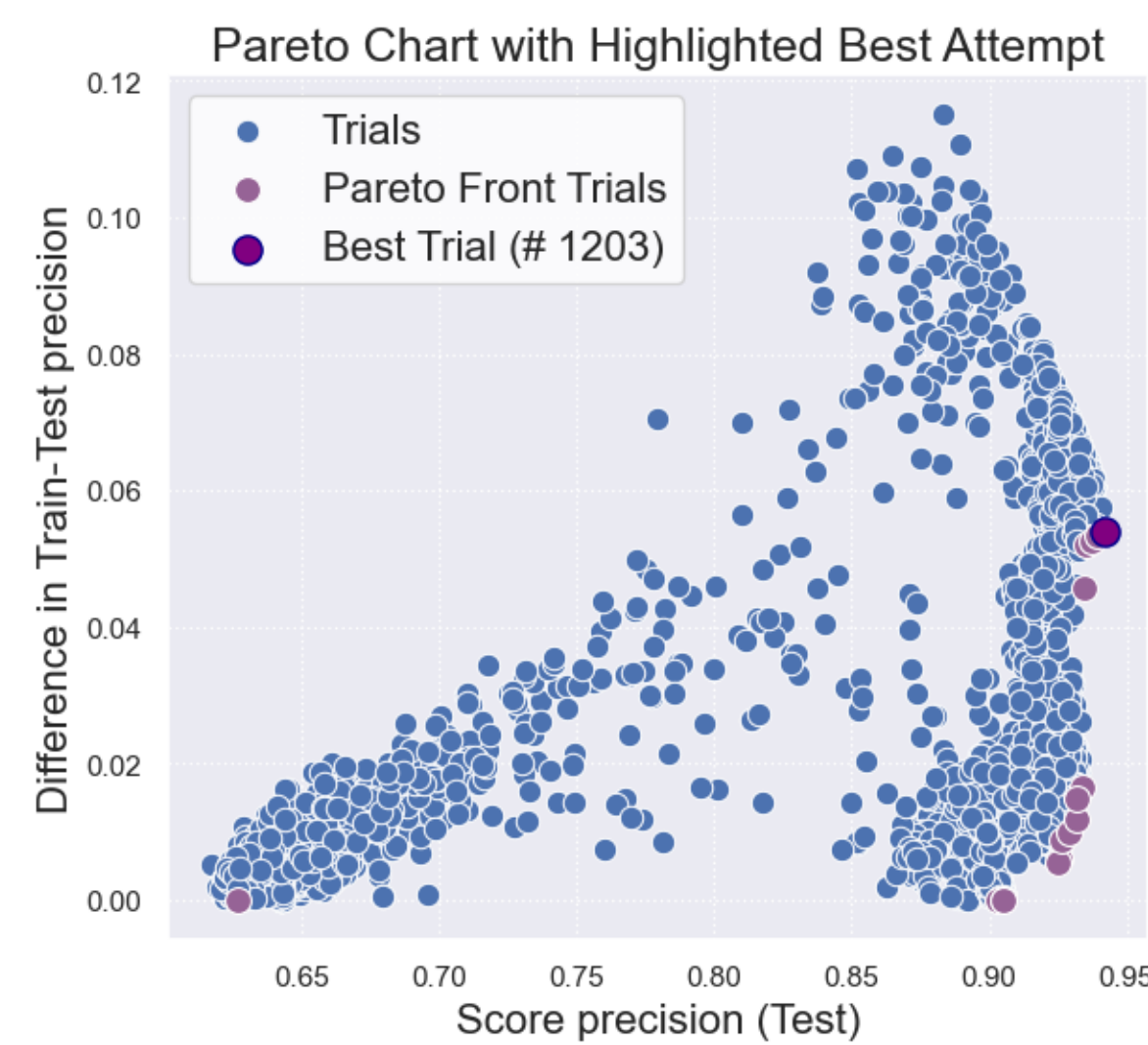
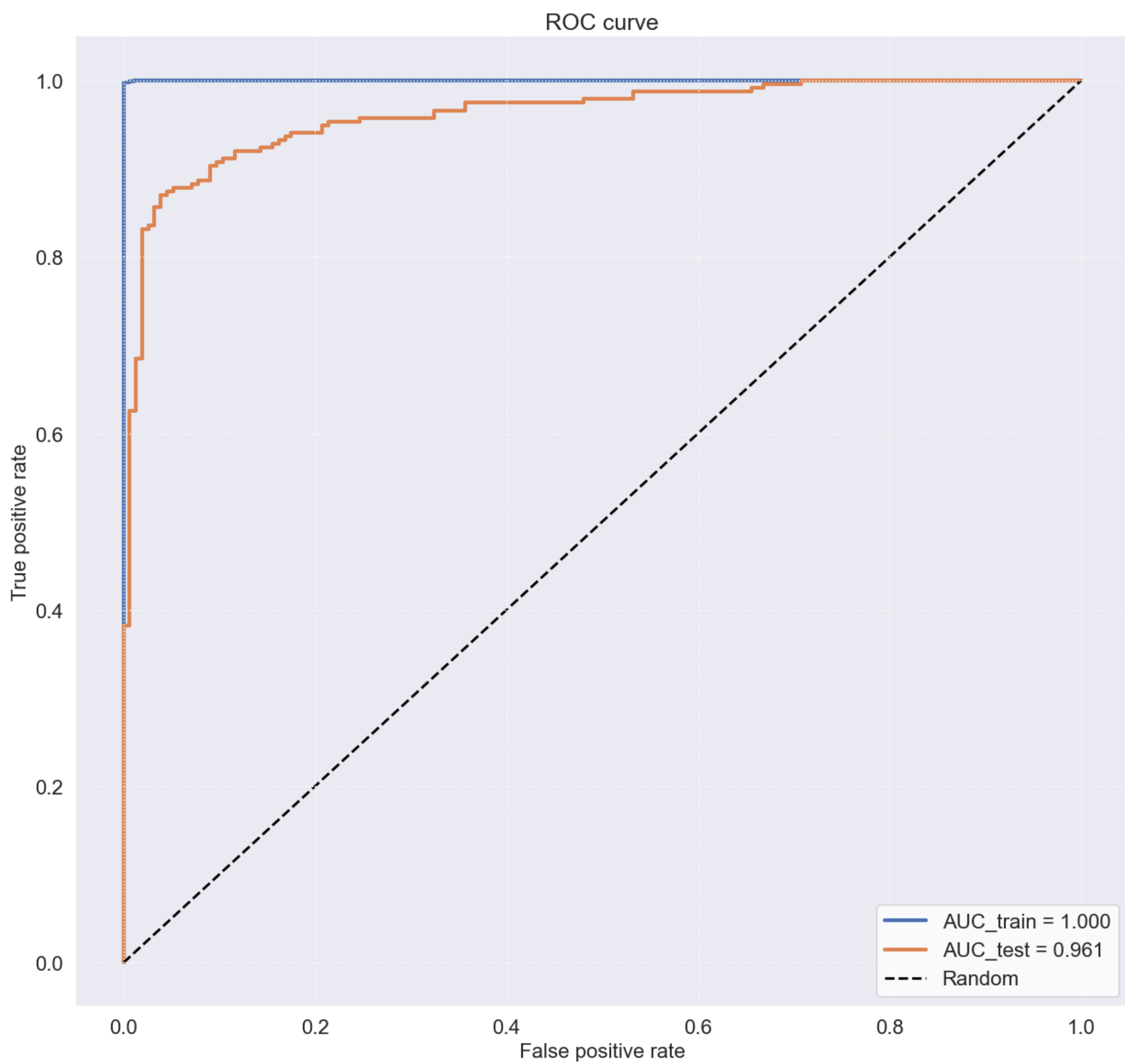
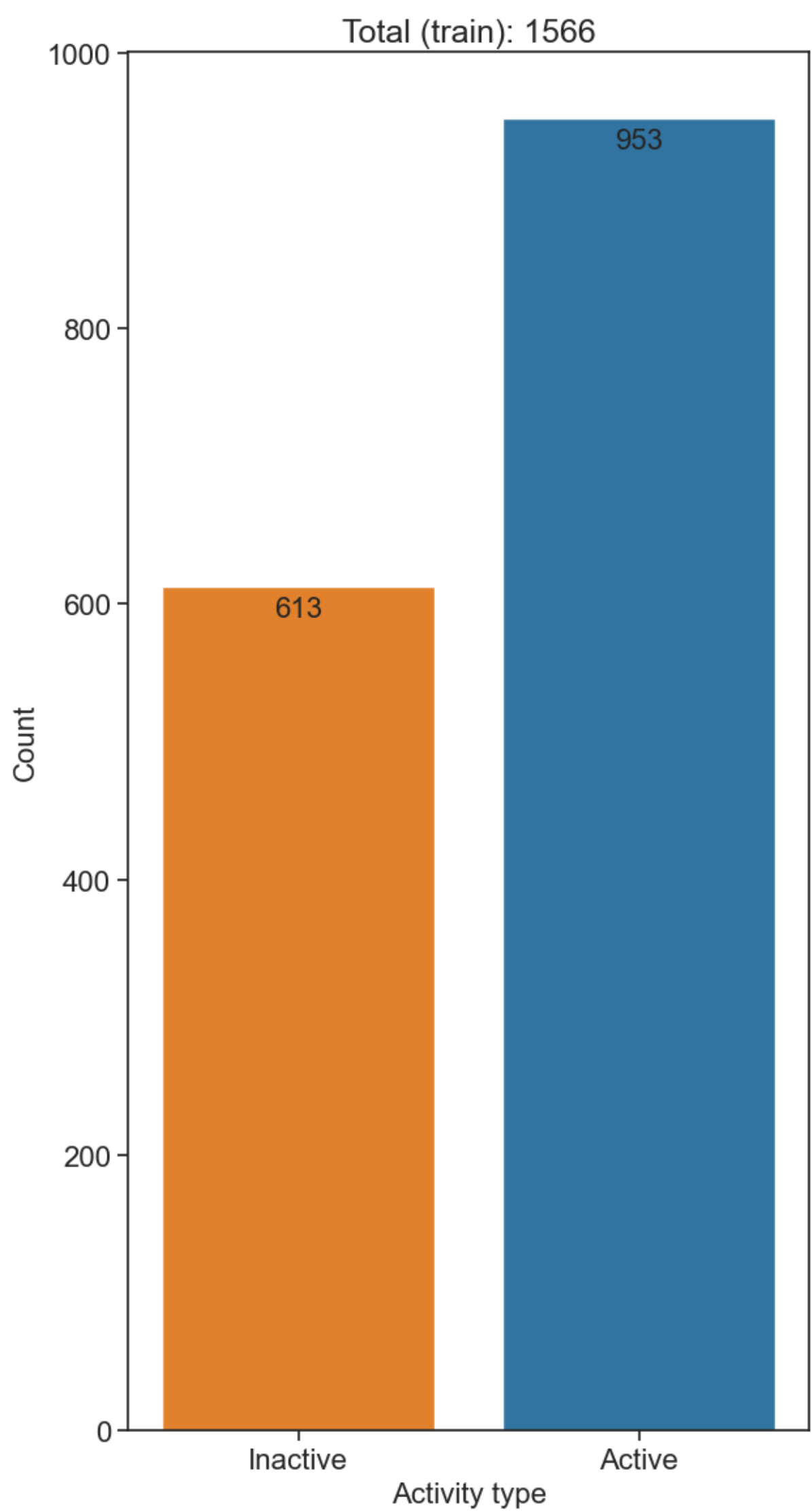


XGBoost Parameters	Value
alpha	2.4855
colsample_bytree	0.6864
gamma	0.7694
lambda	1.4545
learning_rate	0.0198
max_depth	9.0
min_child_weight	2.0
n_estimators	982.0
reg_alpha	0.0708
reg_lambda	0.7613
scale_pos_weight	2.1136
subsample	0.8072

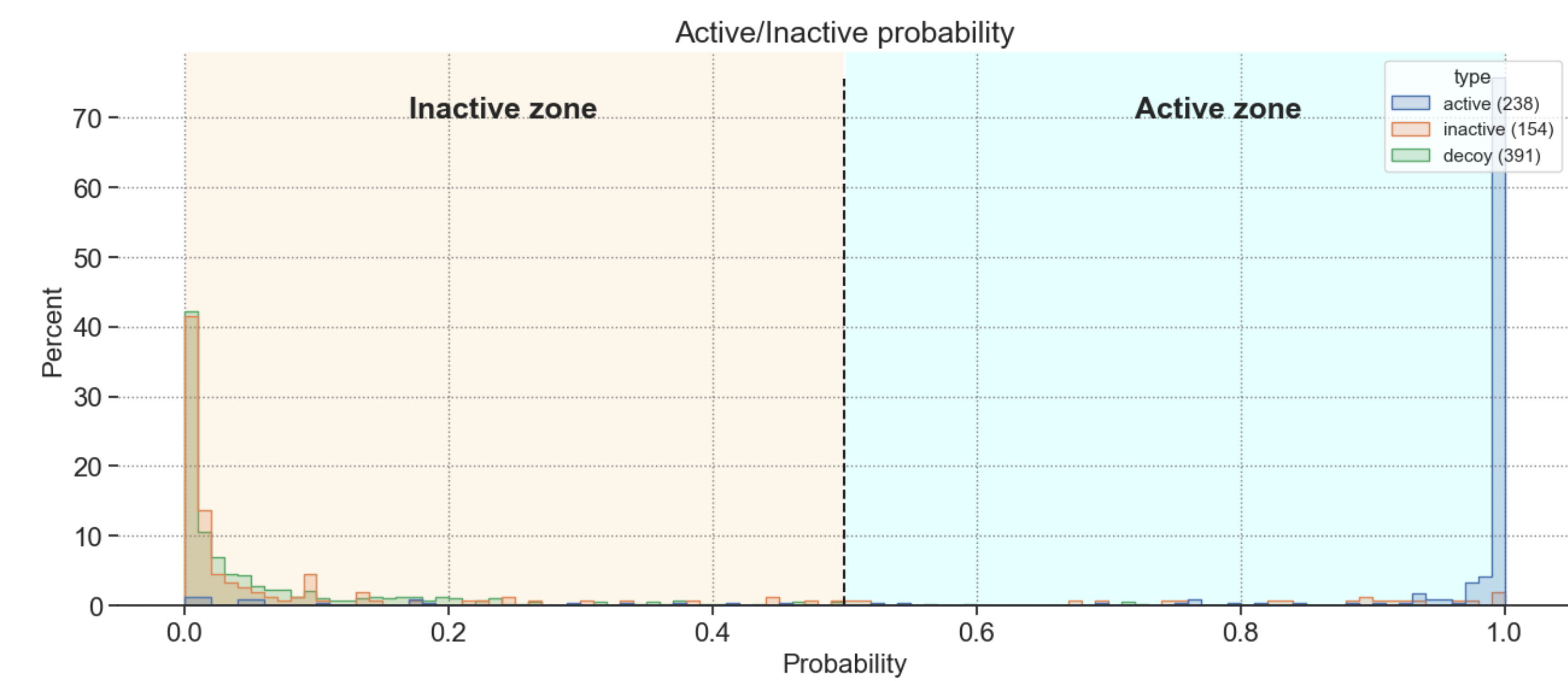
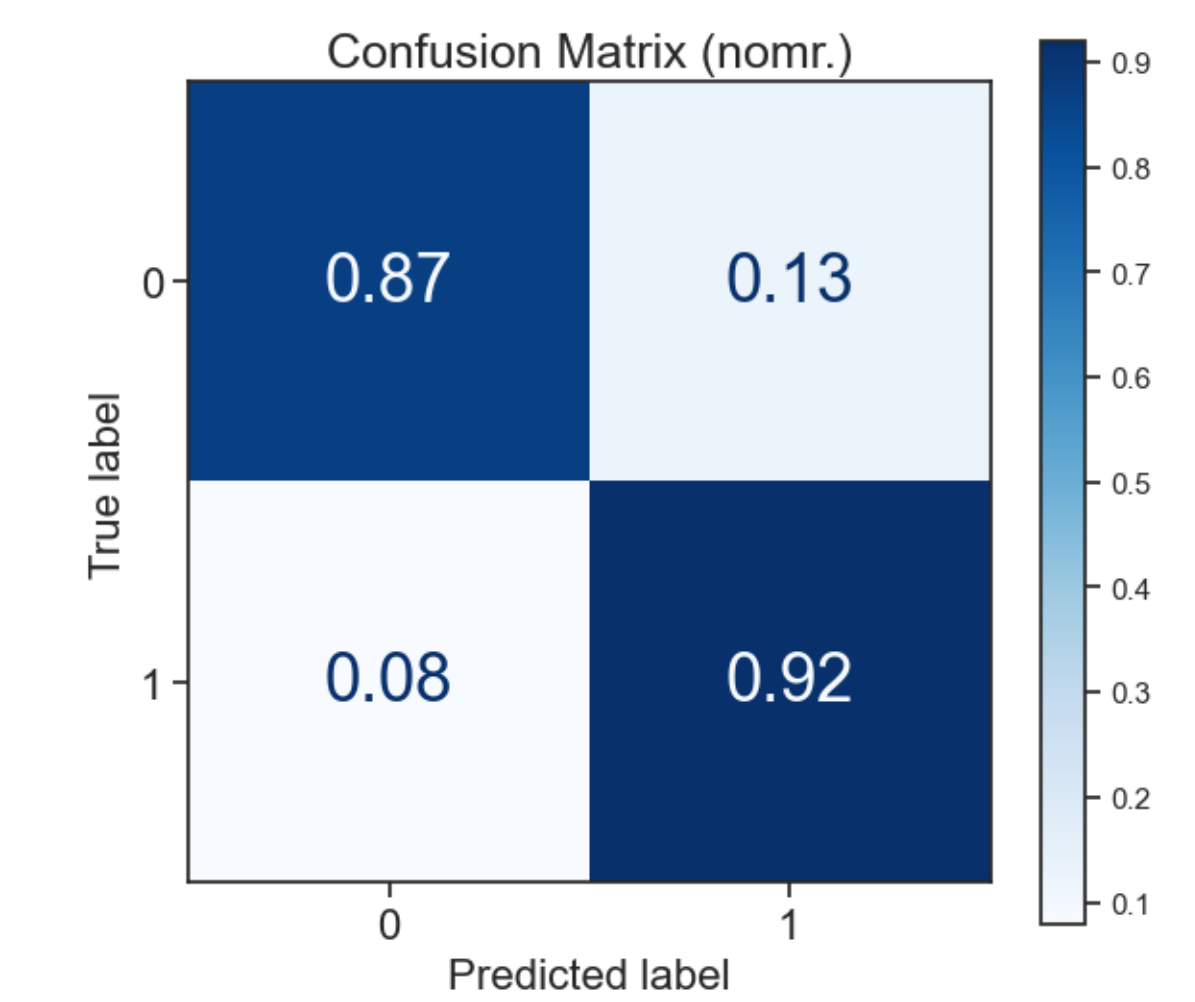
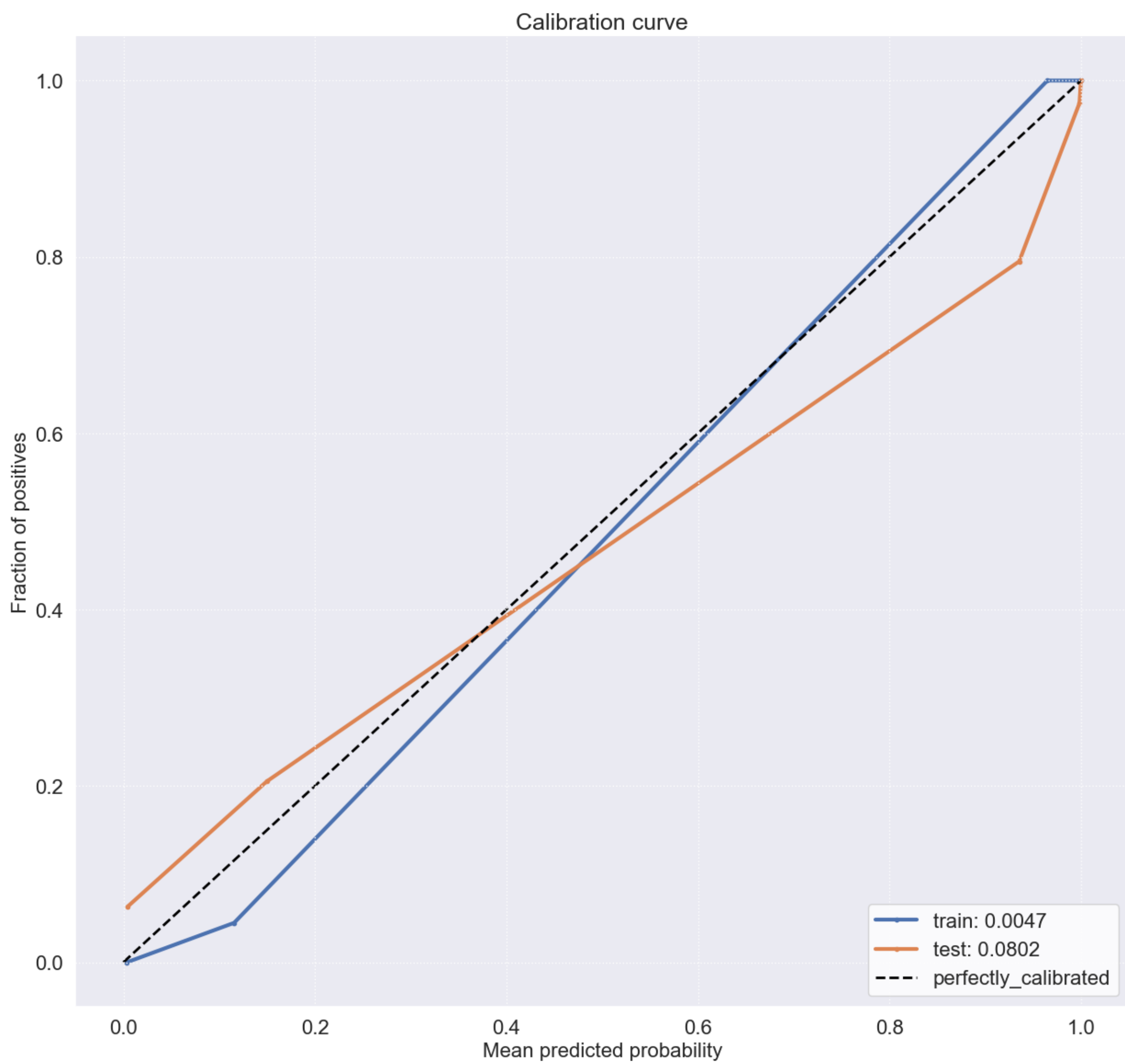
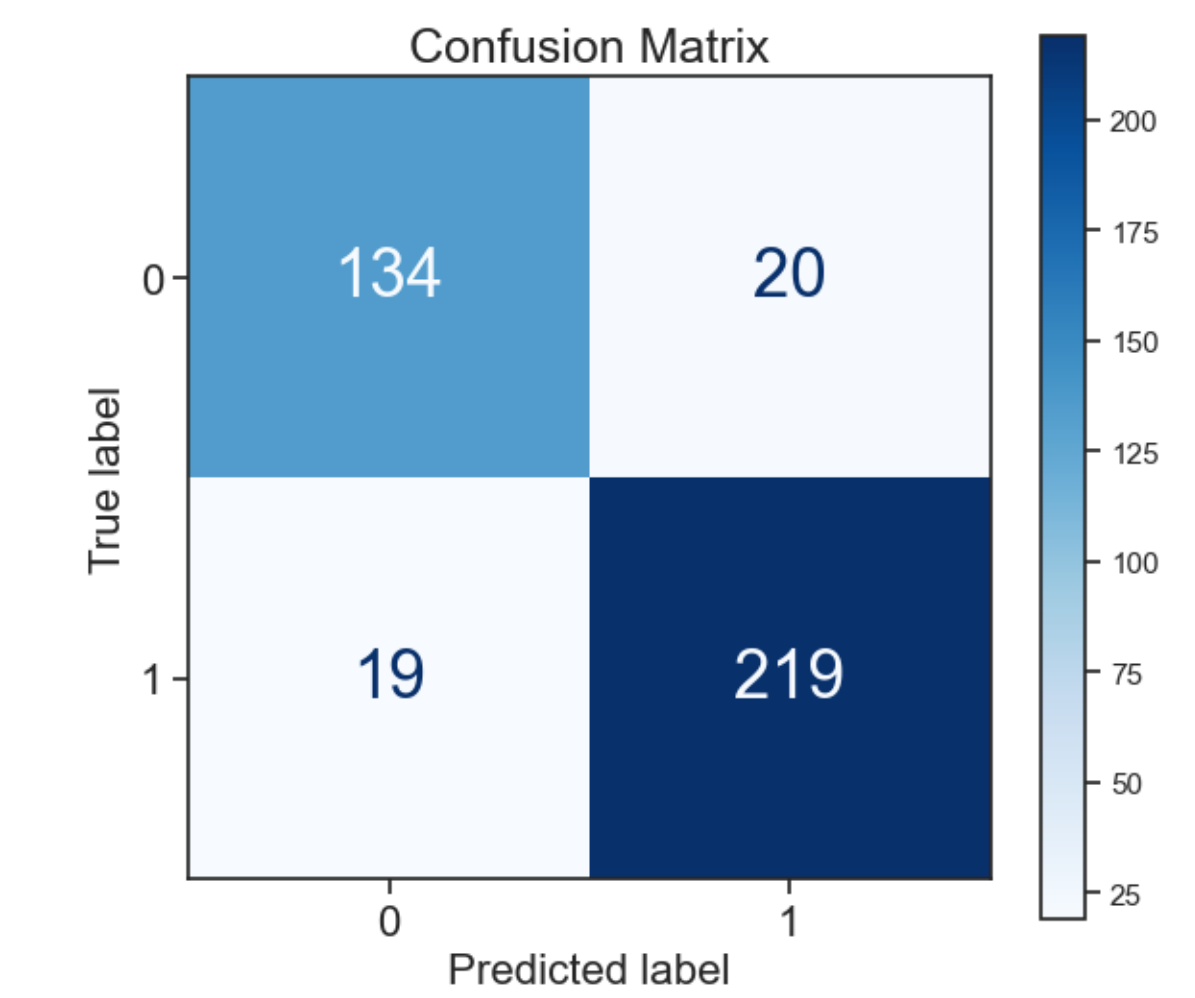


Metric	Train	Test
AUC	0.9996	0.9676
accuracy	0.9891	0.9107
balanced accuracy	0.987	0.9047
recall_(sens)	0.9969	0.9328
specificity	0.9772	0.8766
precision	0.9855	0.9212
f1_score	0.9891	0.9106

Protein: P00519 - metric: precision

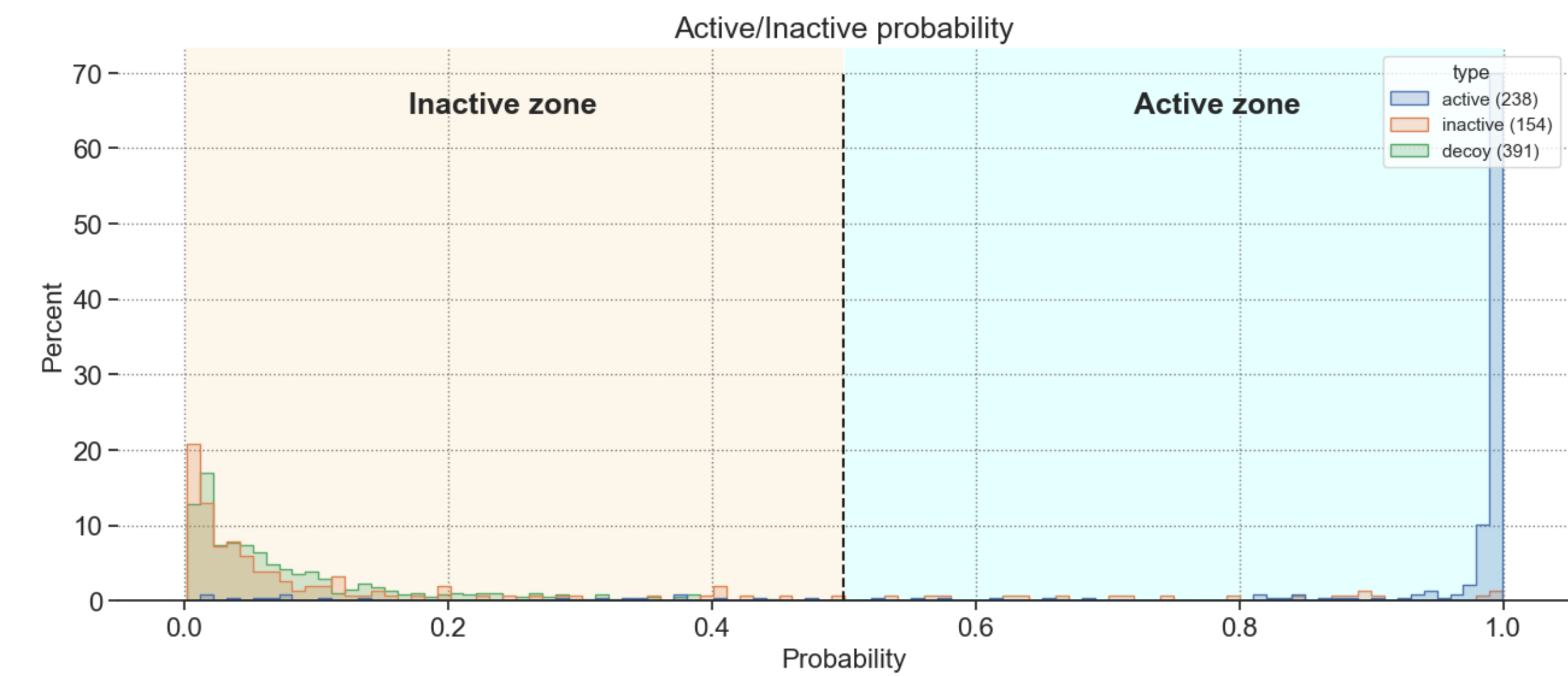
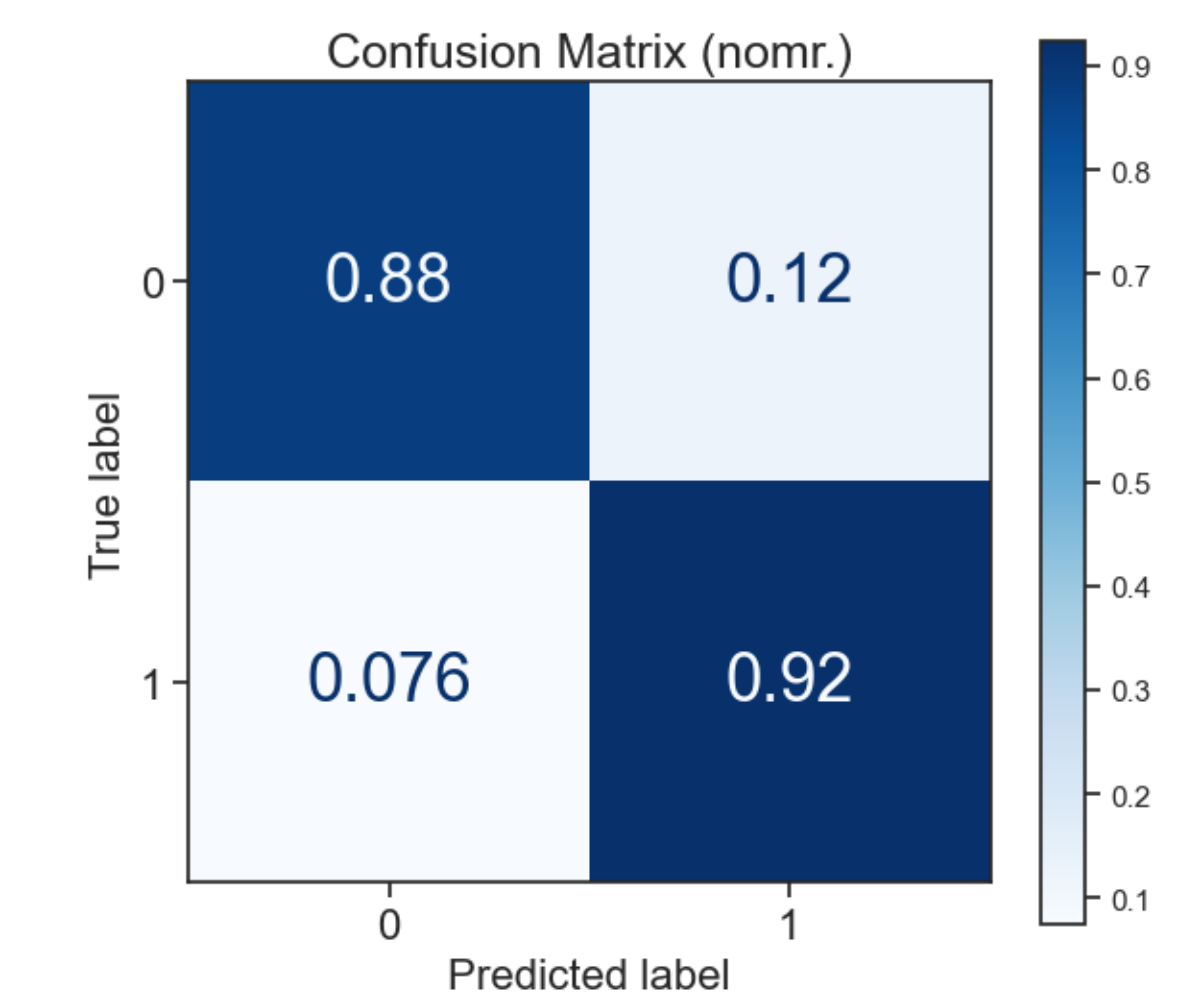
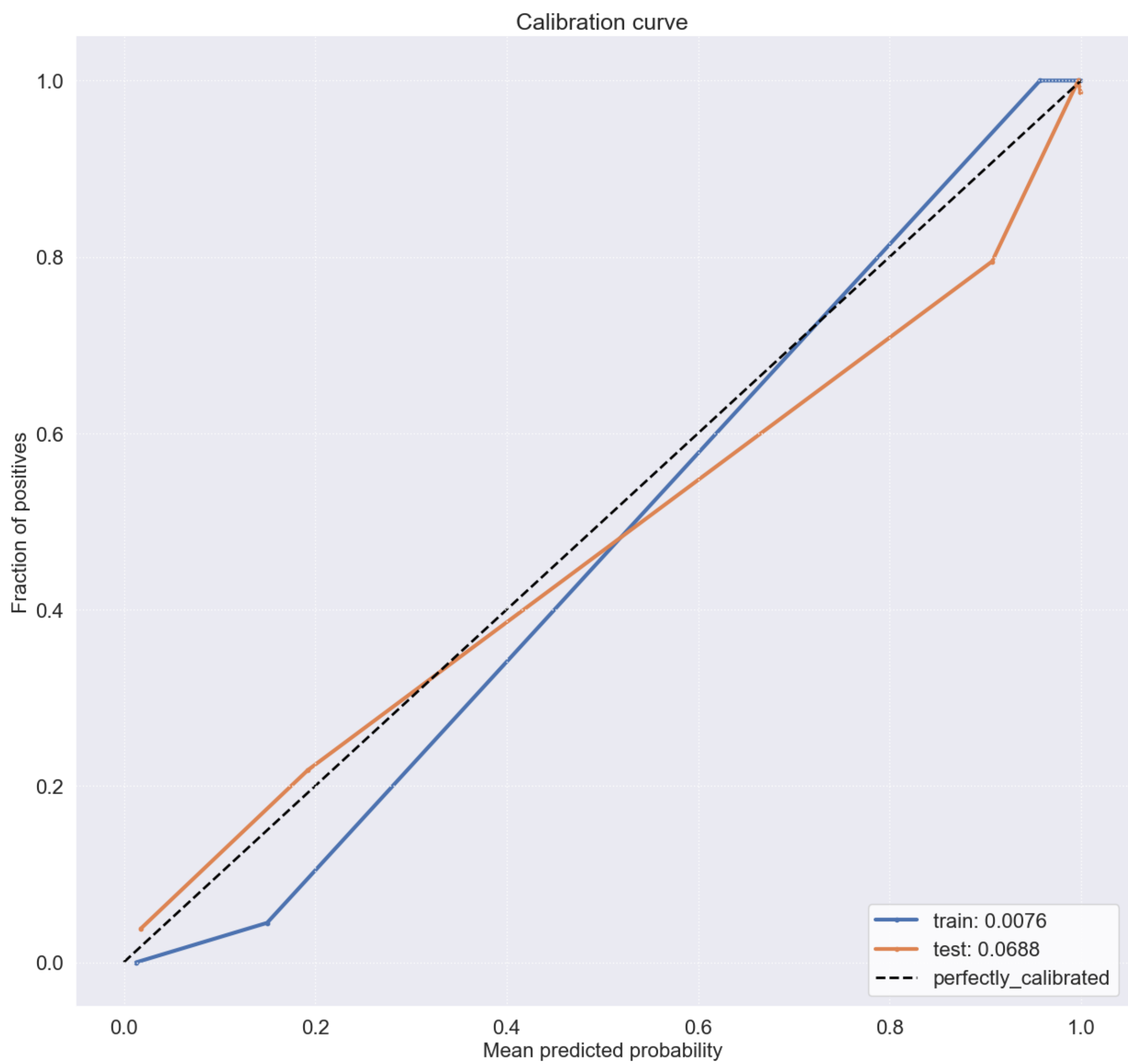
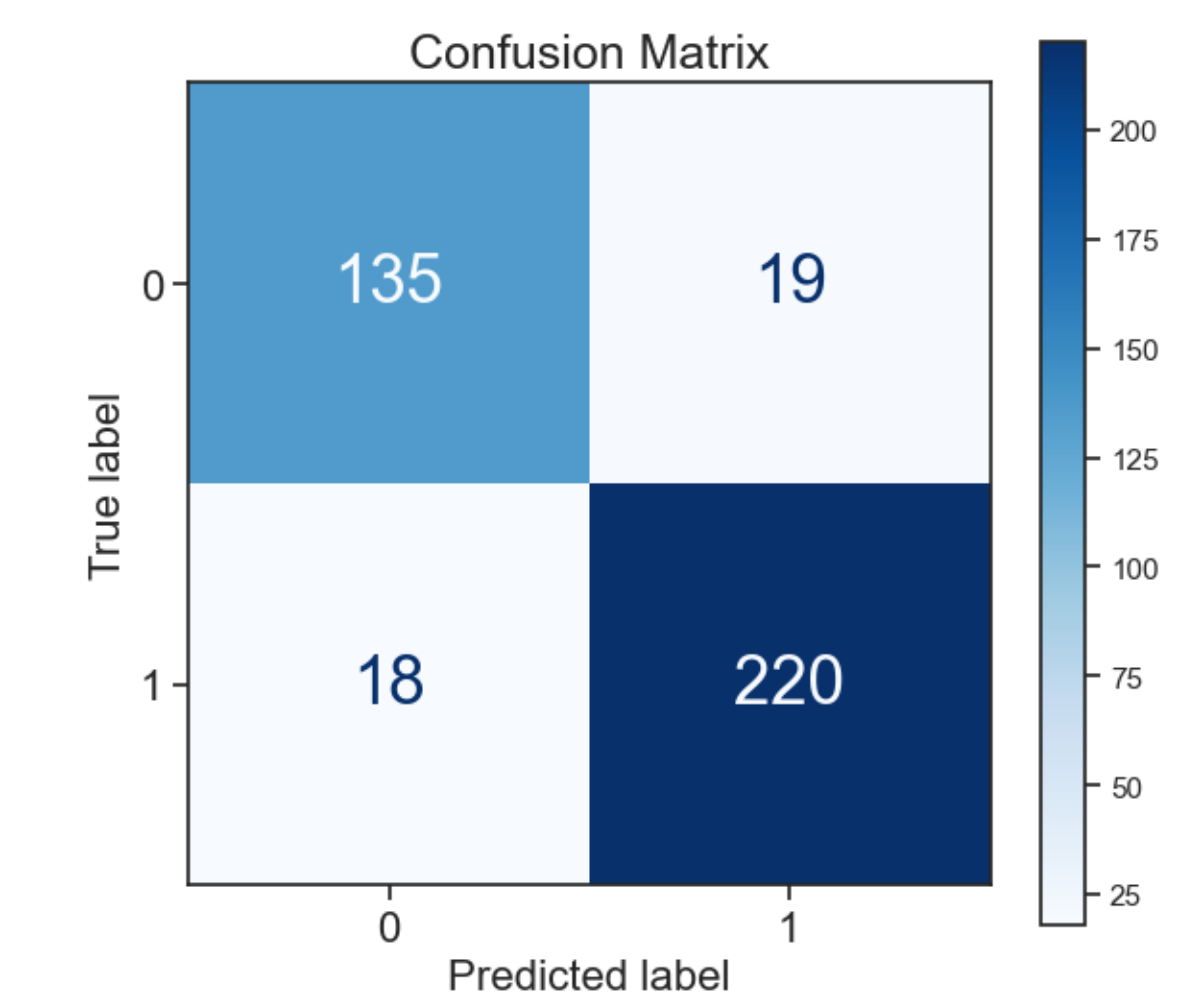
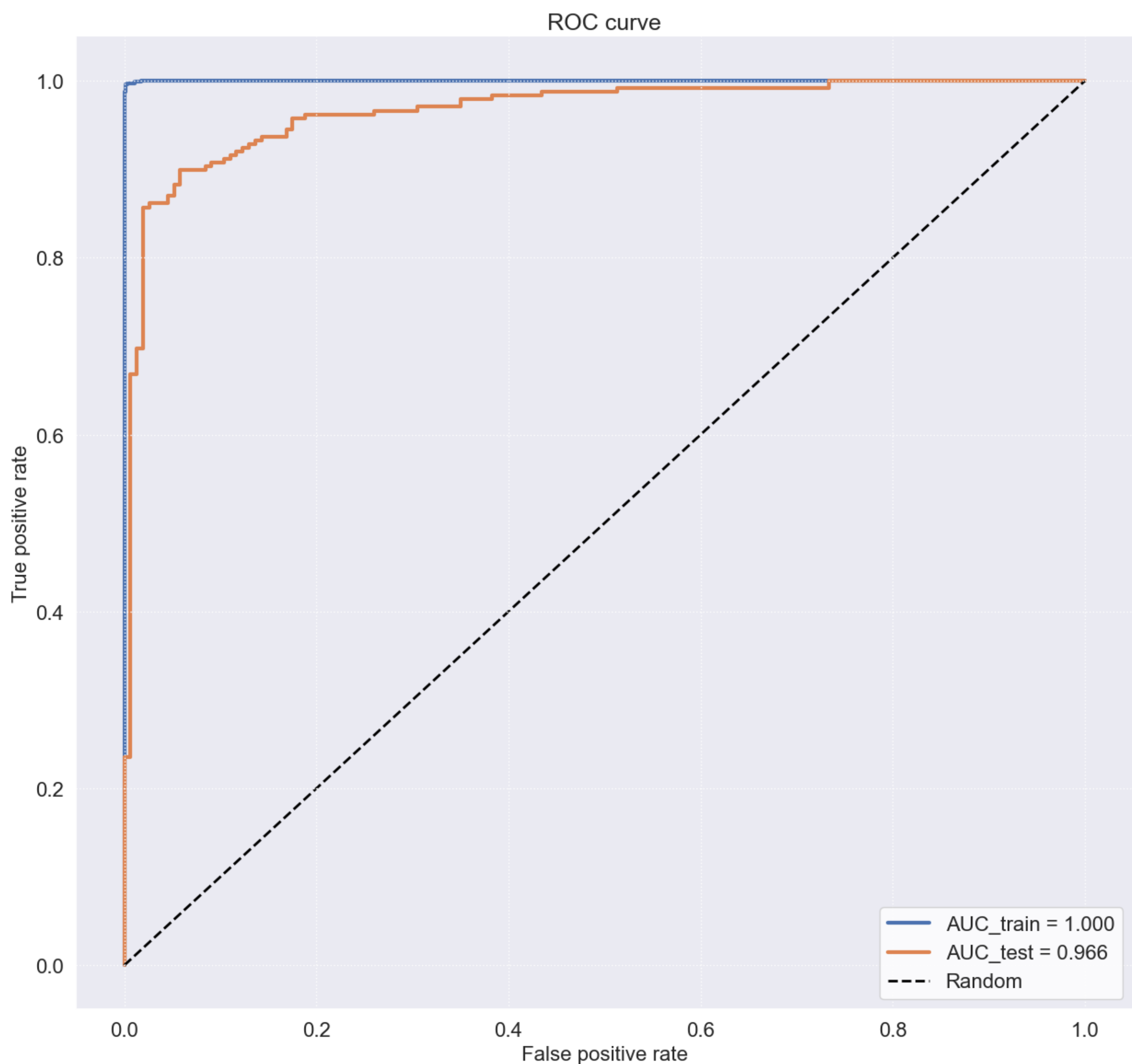
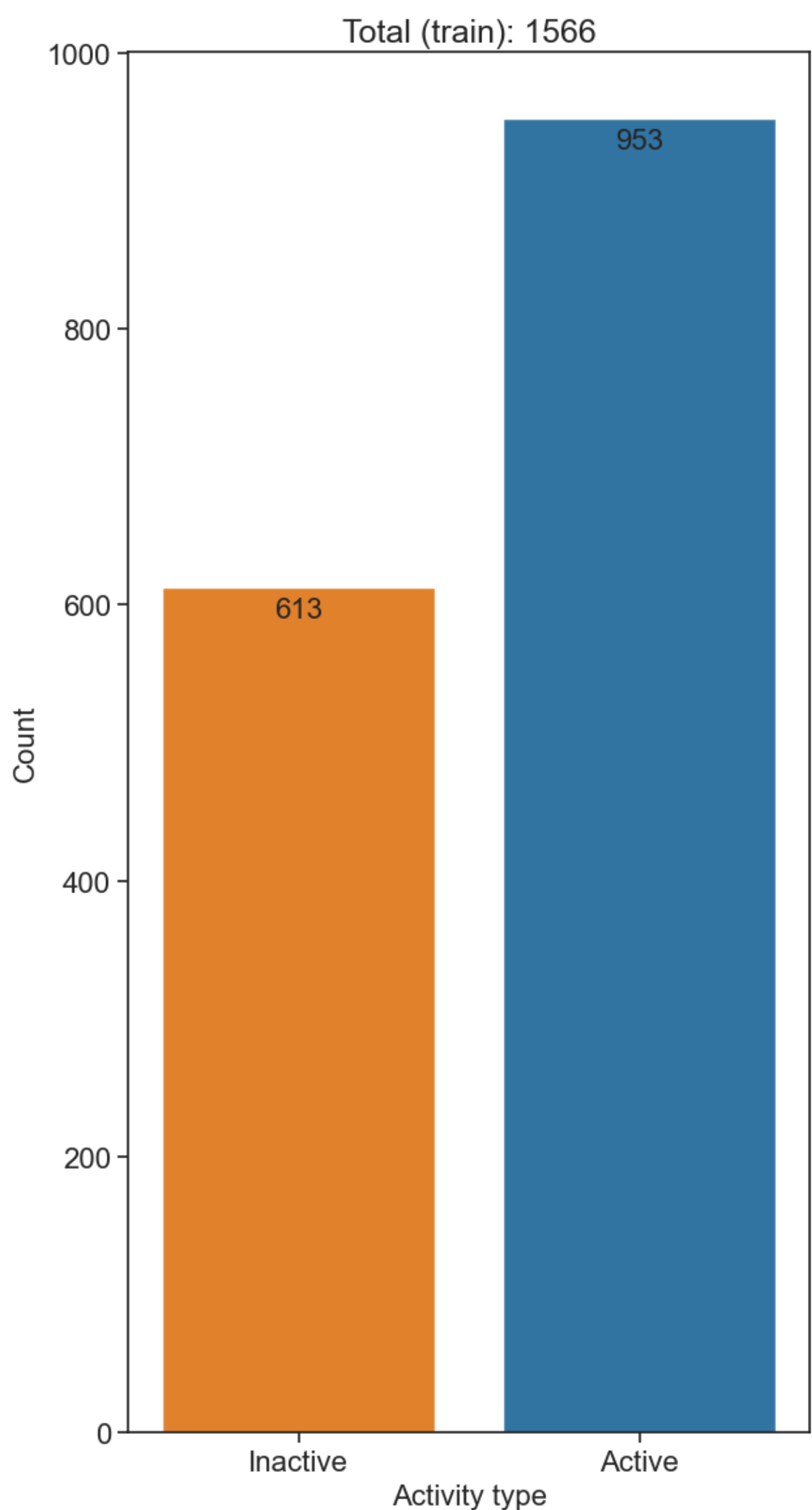


XGBoost Parameters		Value
alpha		0.7322
colsample_bytree		0.9955
gamma		0.2702
lambda		2.0309
learning_rate		0.3139
max_depth		6.0
min_child_weight		2.0
n_estimators		551.0
reg_alpha		0.8069
reg_lambda		0.565
scale_pos_weight		1.7565
subsample		0.7405



Metric	Train	Test
AUC	1.0	0.9613
accuracy	0.9968	0.9005
balanced accuracy	0.9962	0.8951
recall_(sens)	0.999	0.9202
specificity	0.9935	0.8701
precision	0.9958	0.9163
f1_score	0.9968	0.9005

Protein: P00519 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9999	0.9657
accuracy	0.9936	0.9056
balanced accuracy	0.9921	0.9005
recall_(sens)	0.999	0.9244
specificity	0.9853	0.8766
precision	0.9906	0.9205
f1_score	0.9936	0.9056