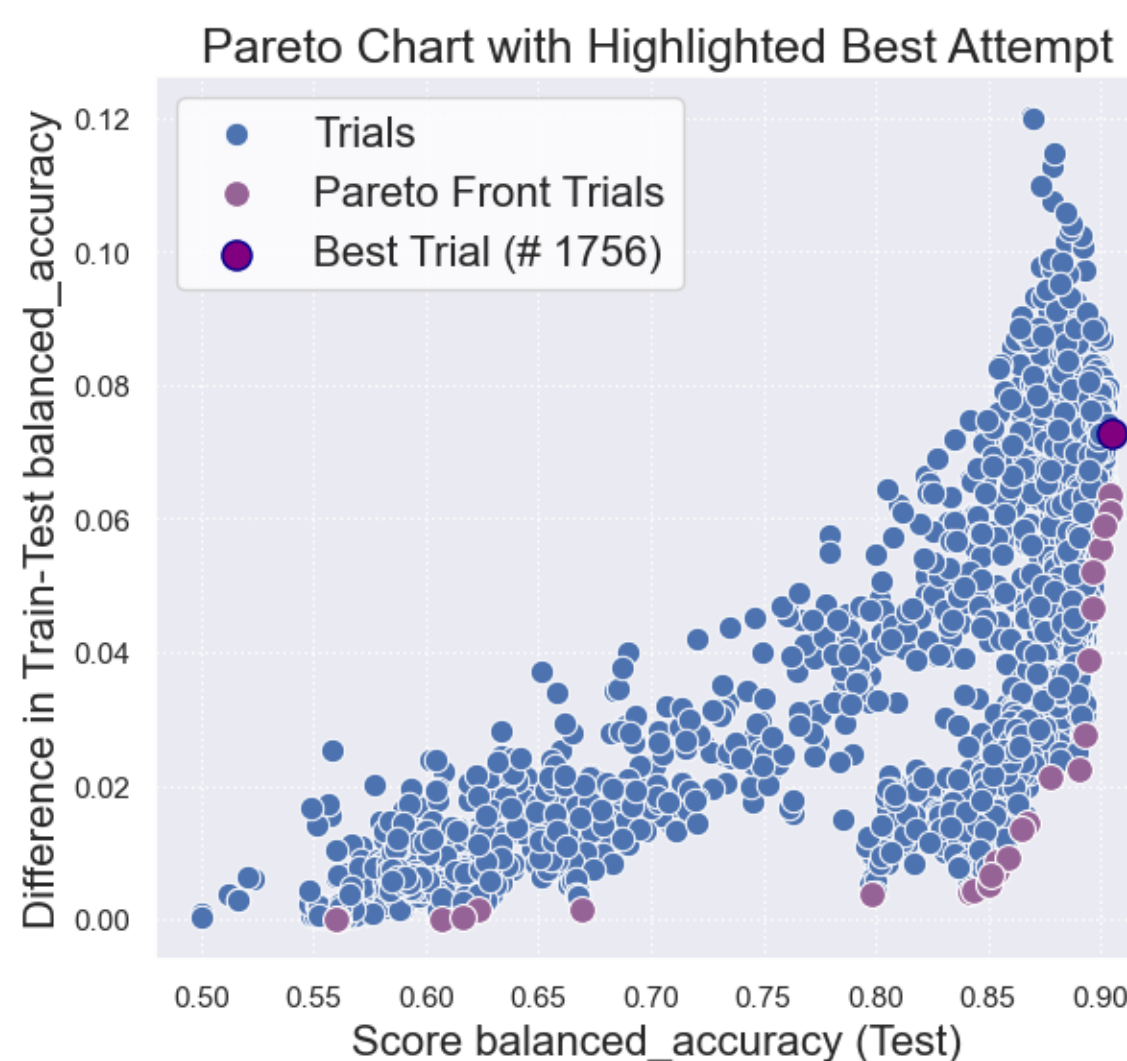
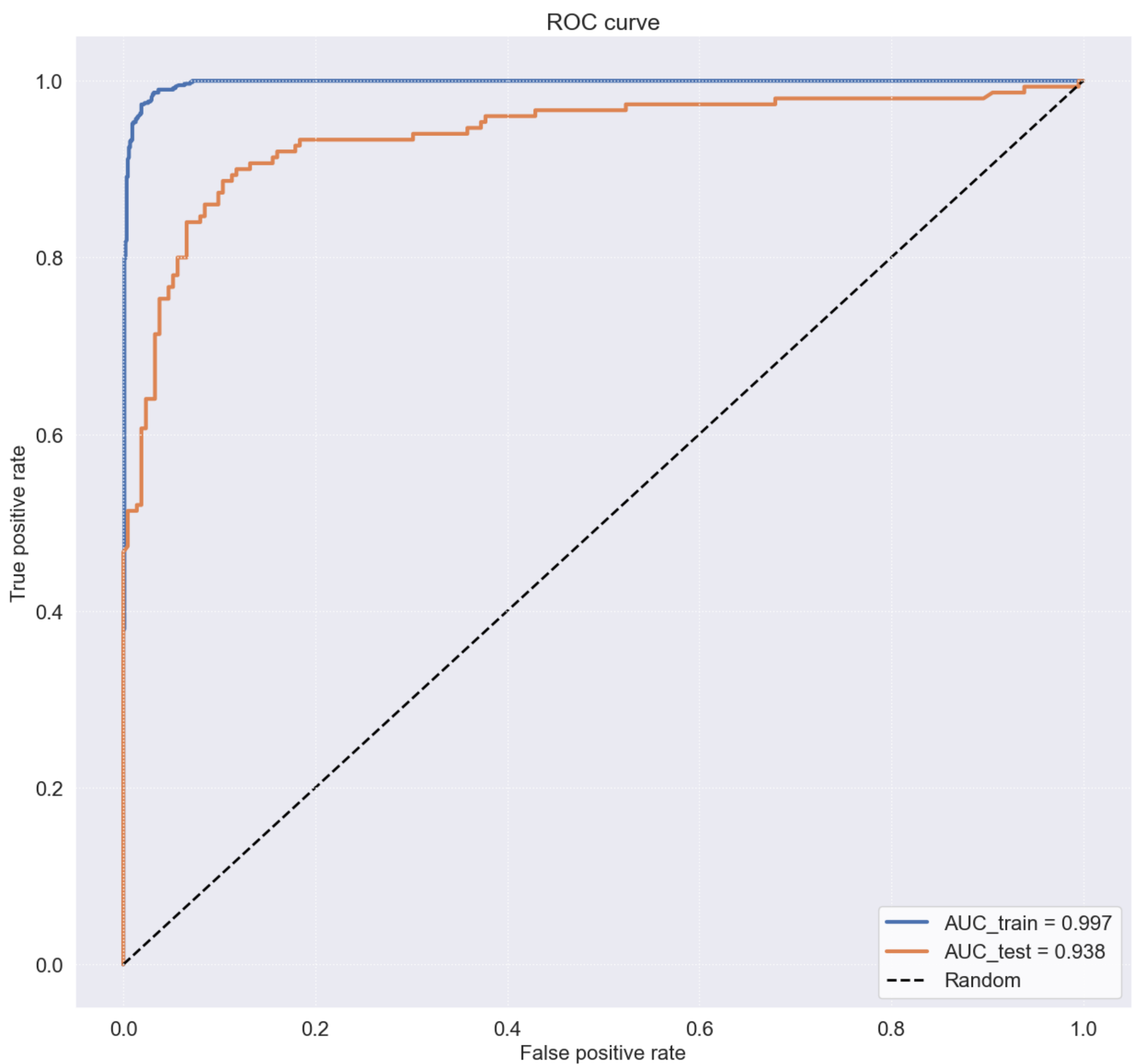
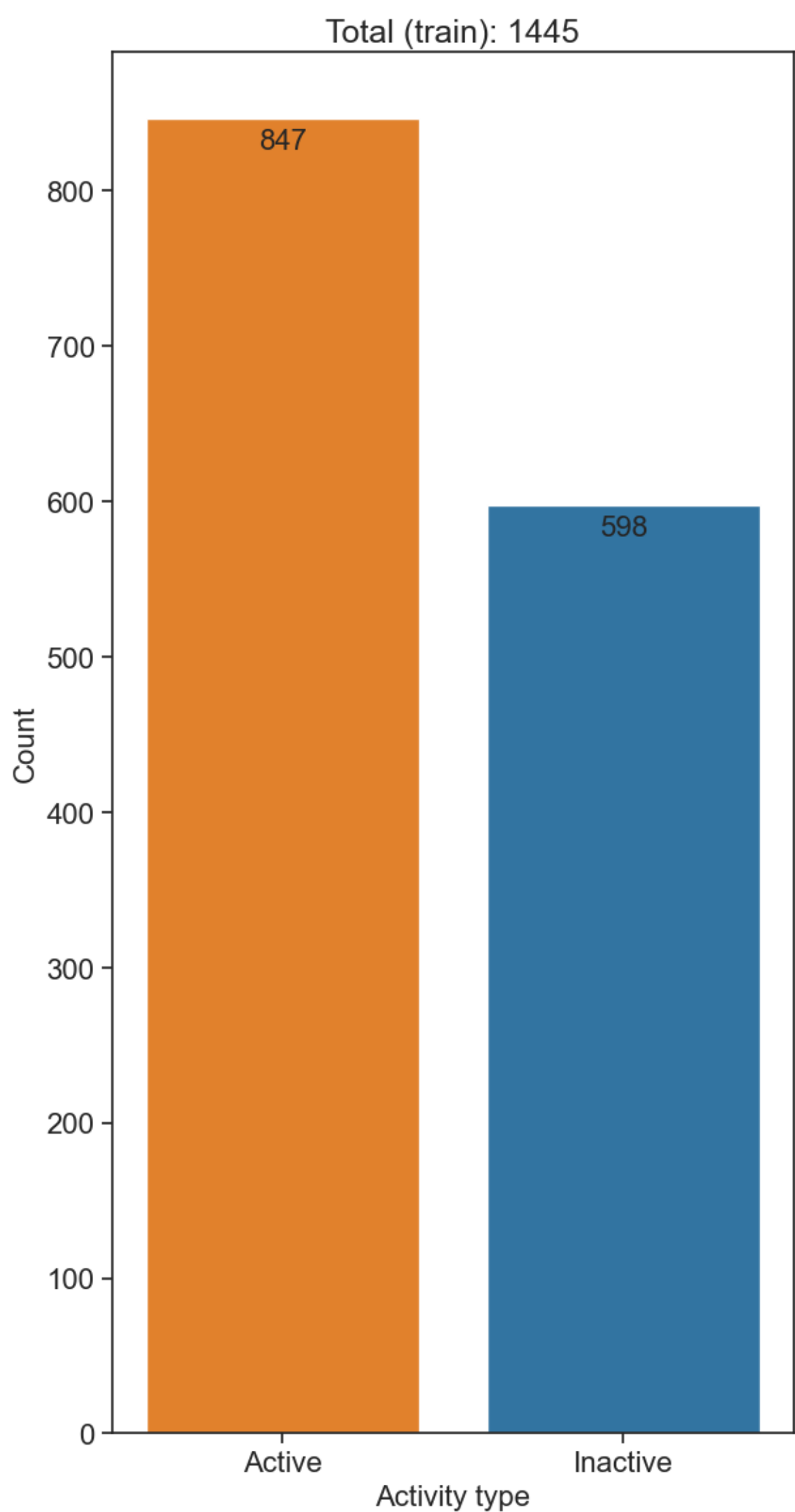
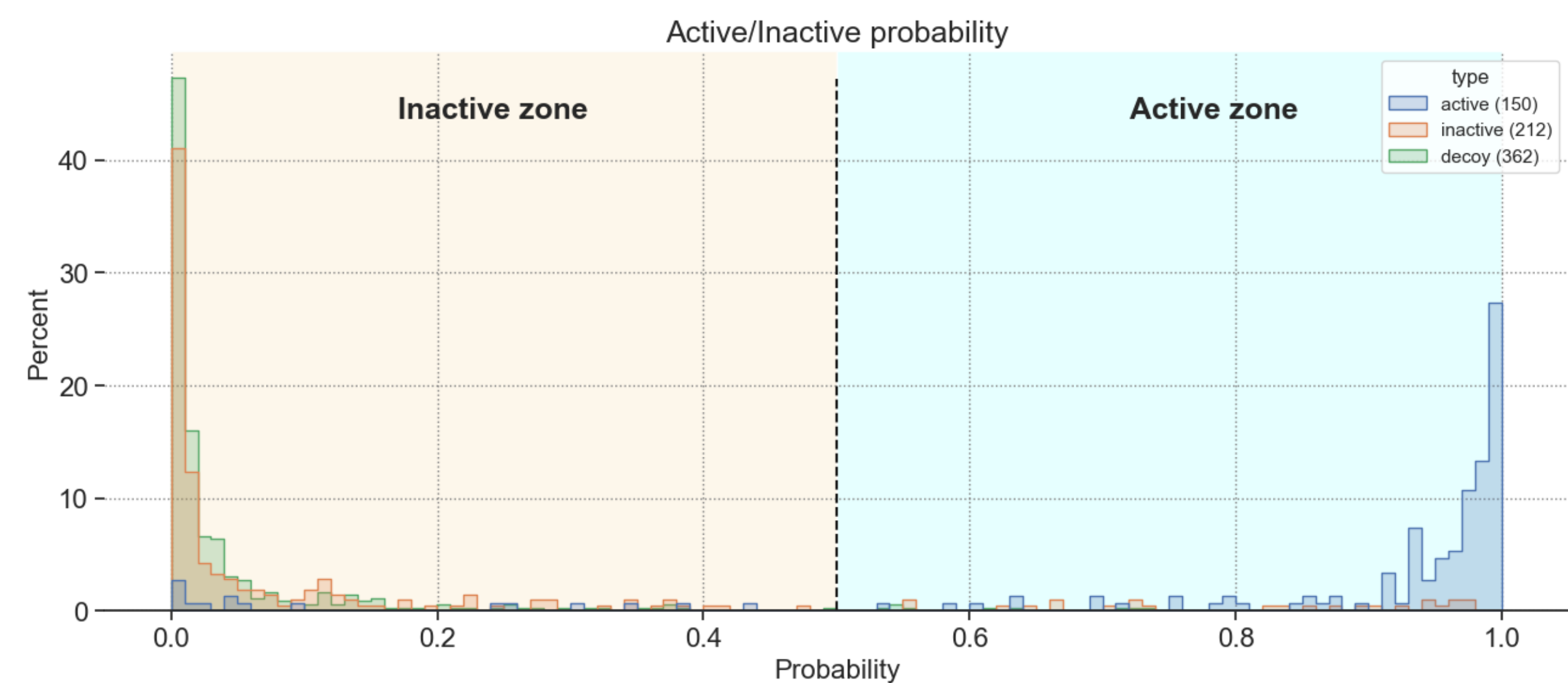
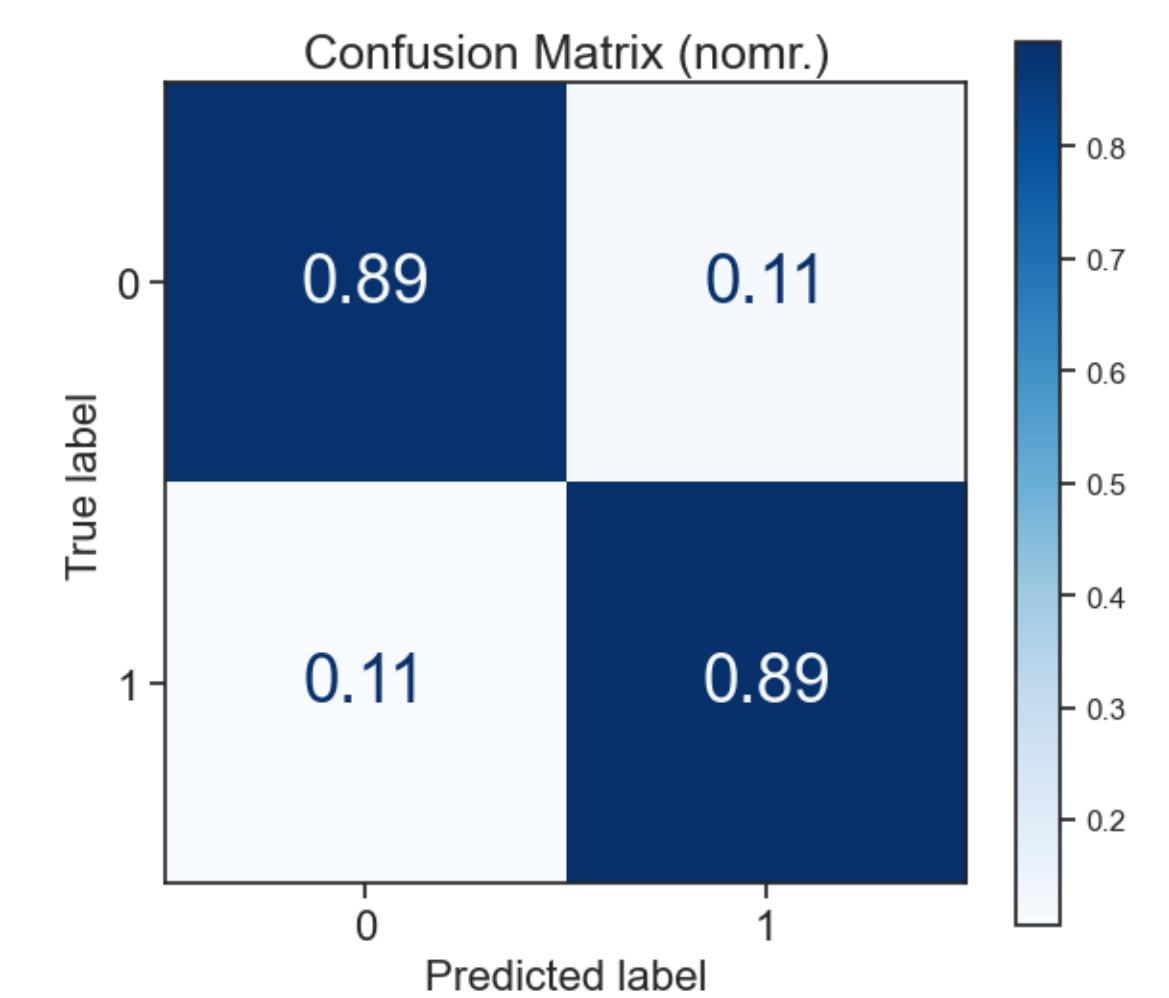
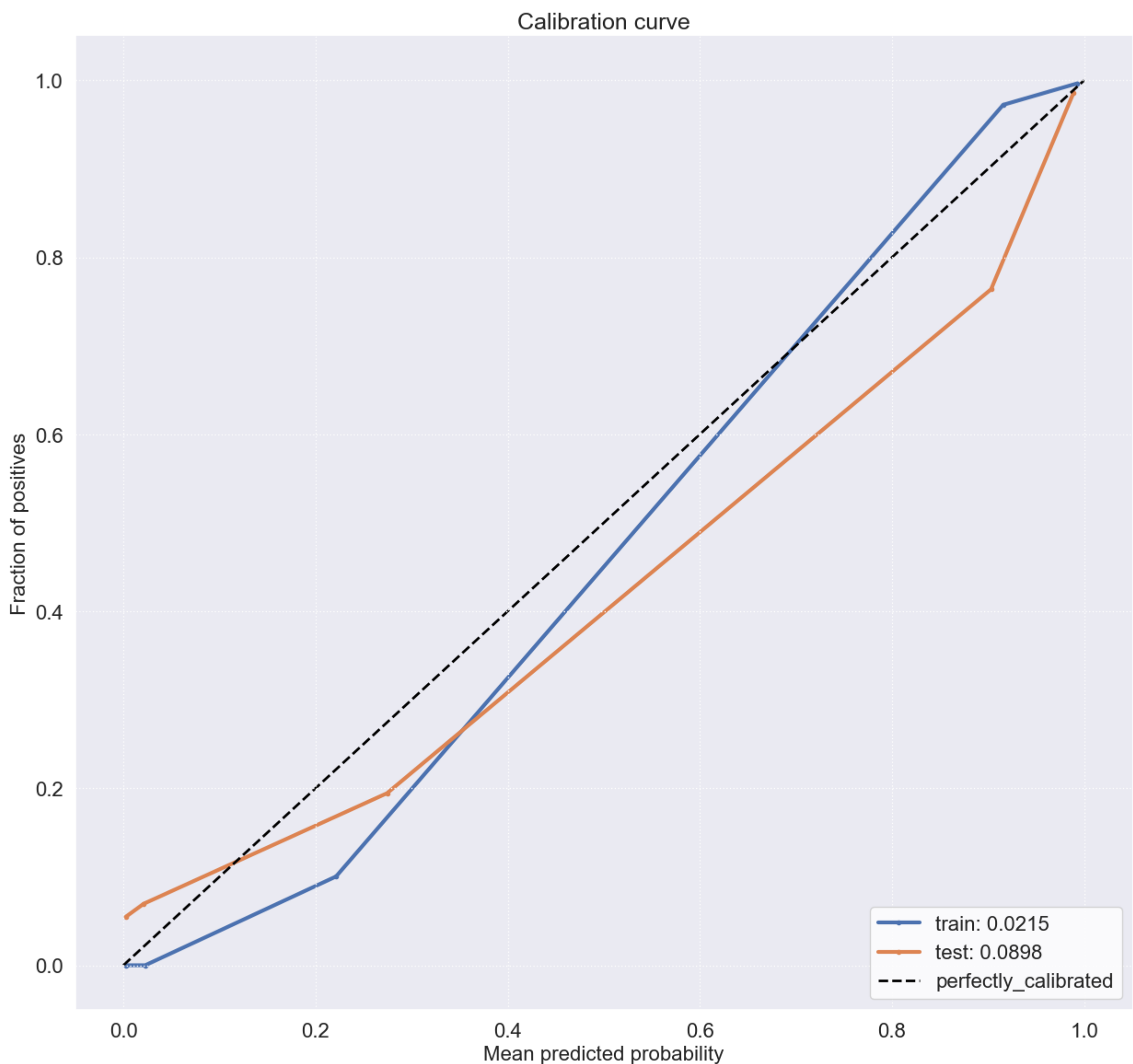
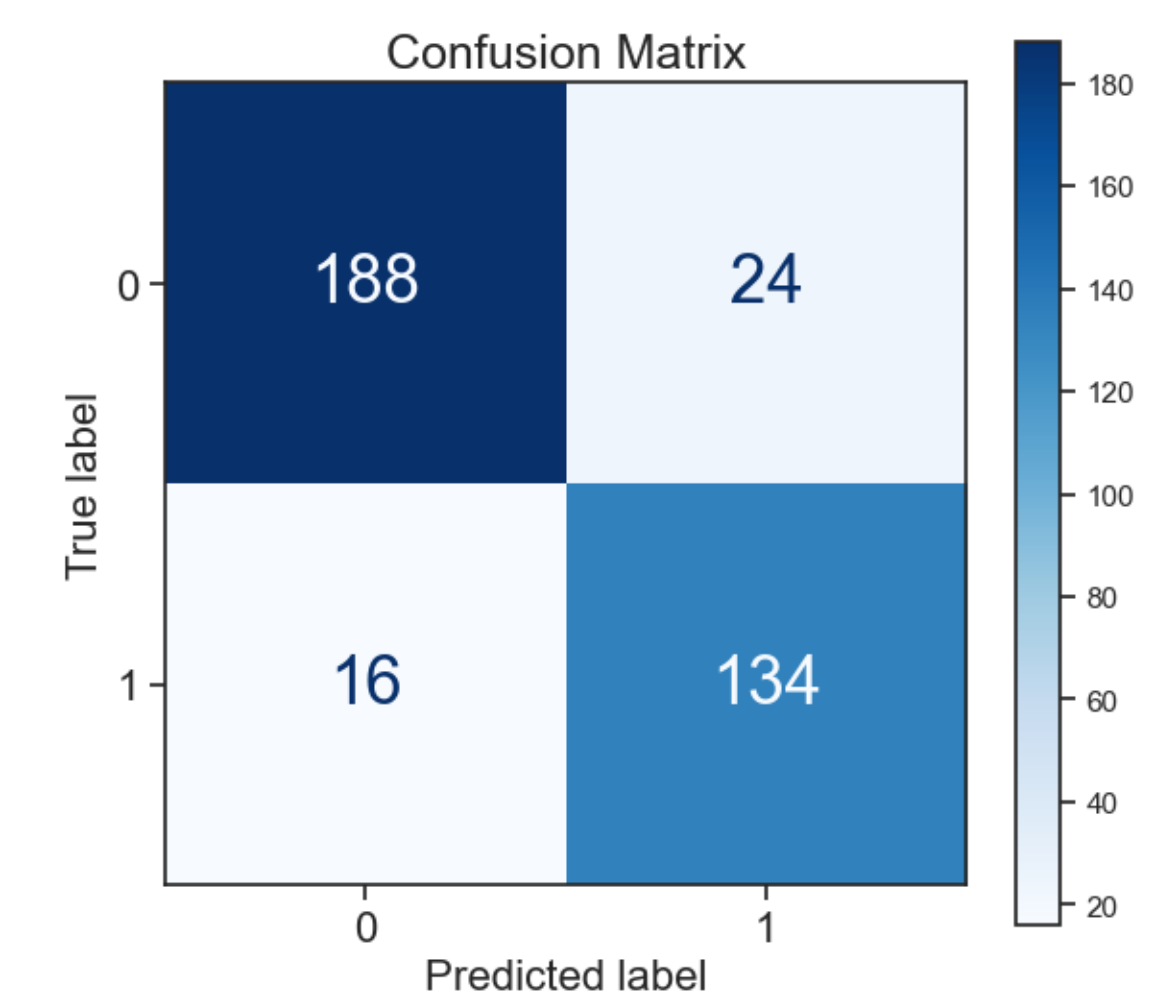


Protein: P03956 - metric: balanced\_accuracy



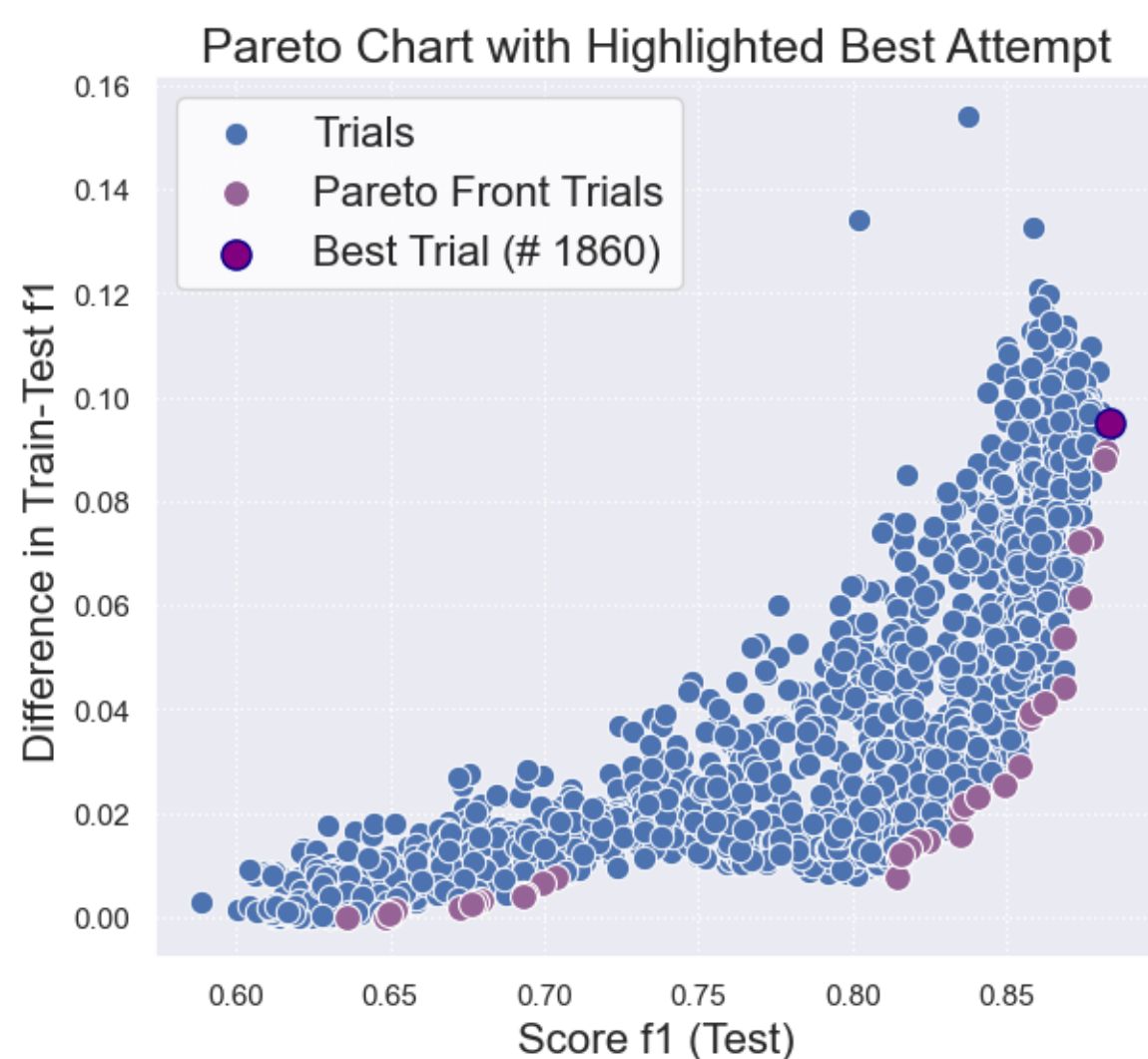
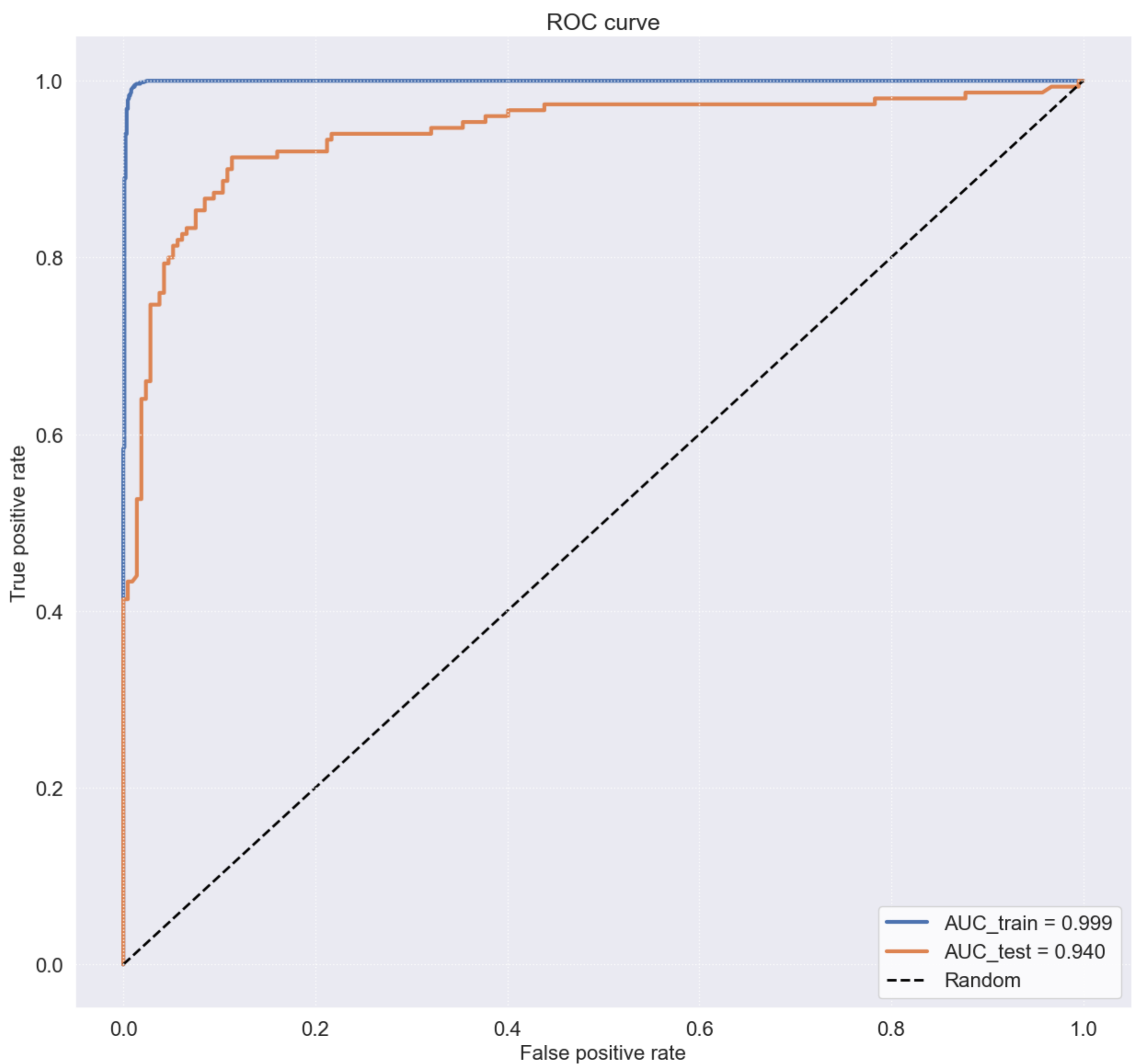
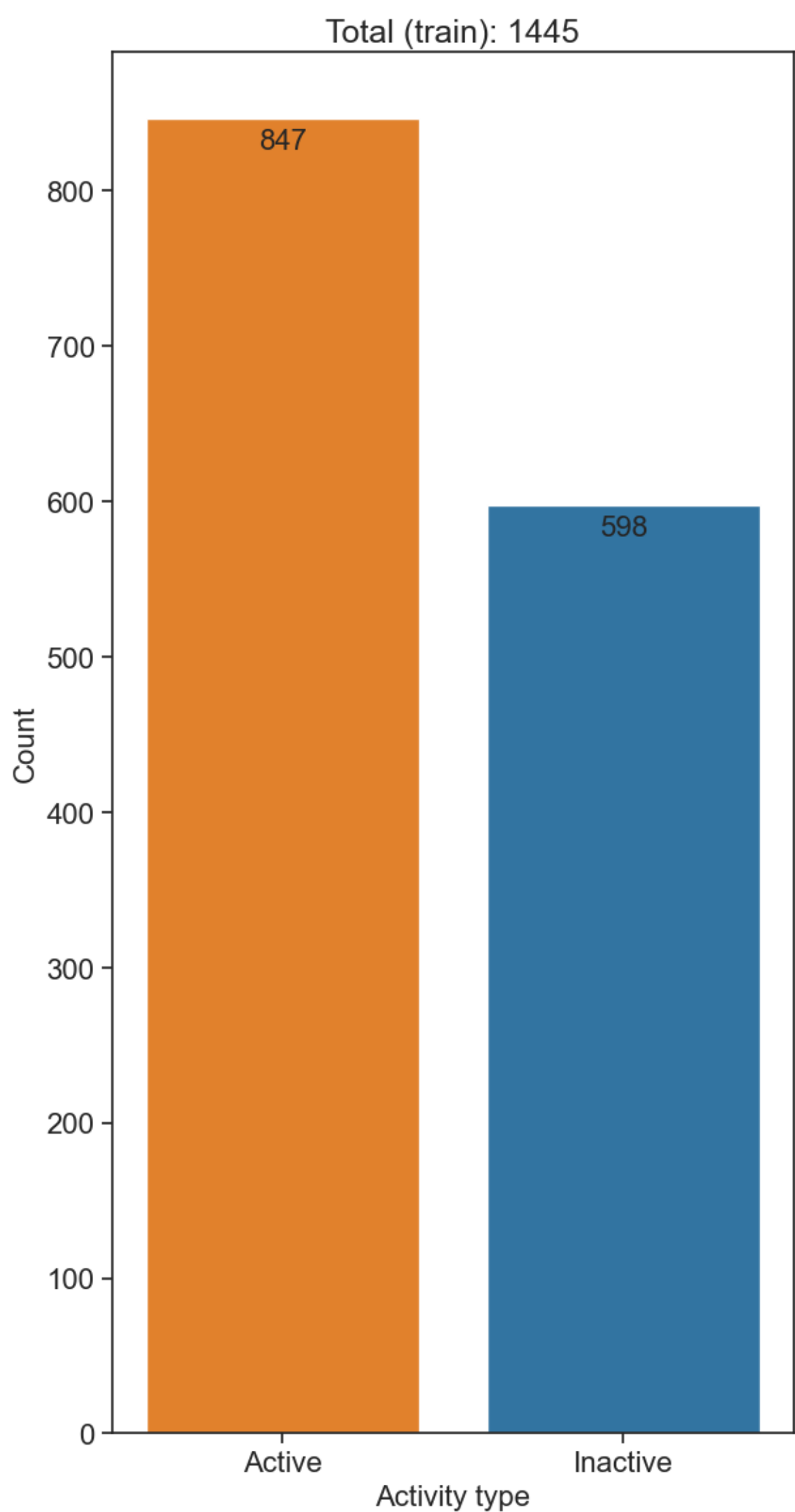
XGBoost Parameters	Value
alpha	3.7614
colsample_bytree	0.6484
gamma	0.1875
lambda	2.4389
learning_rate	0.0529
max_depth	4.0
min_child_weight	2.0
n_estimators	871.0
reg_alpha	0.1215
reg_lambda	0.6168
scale_pos_weight	1.67
subsample	0.7283



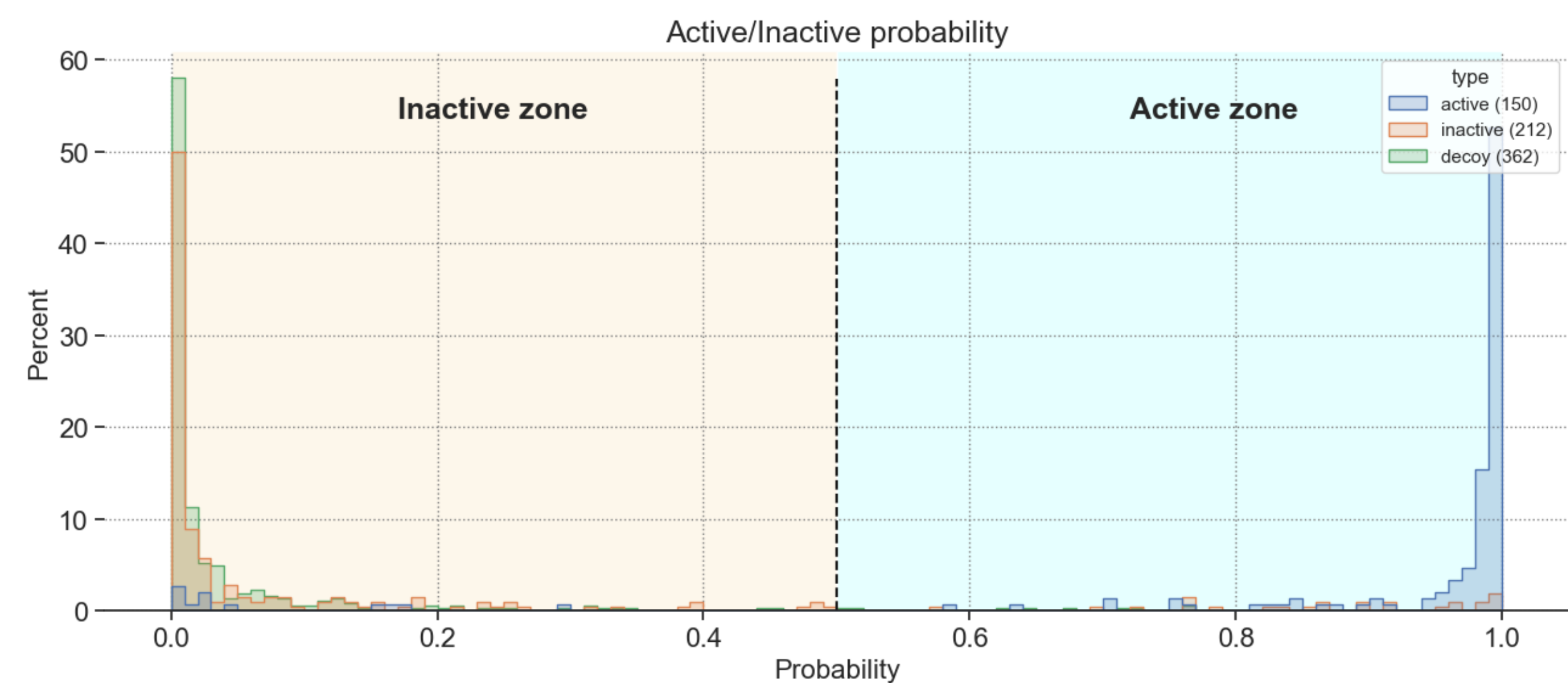
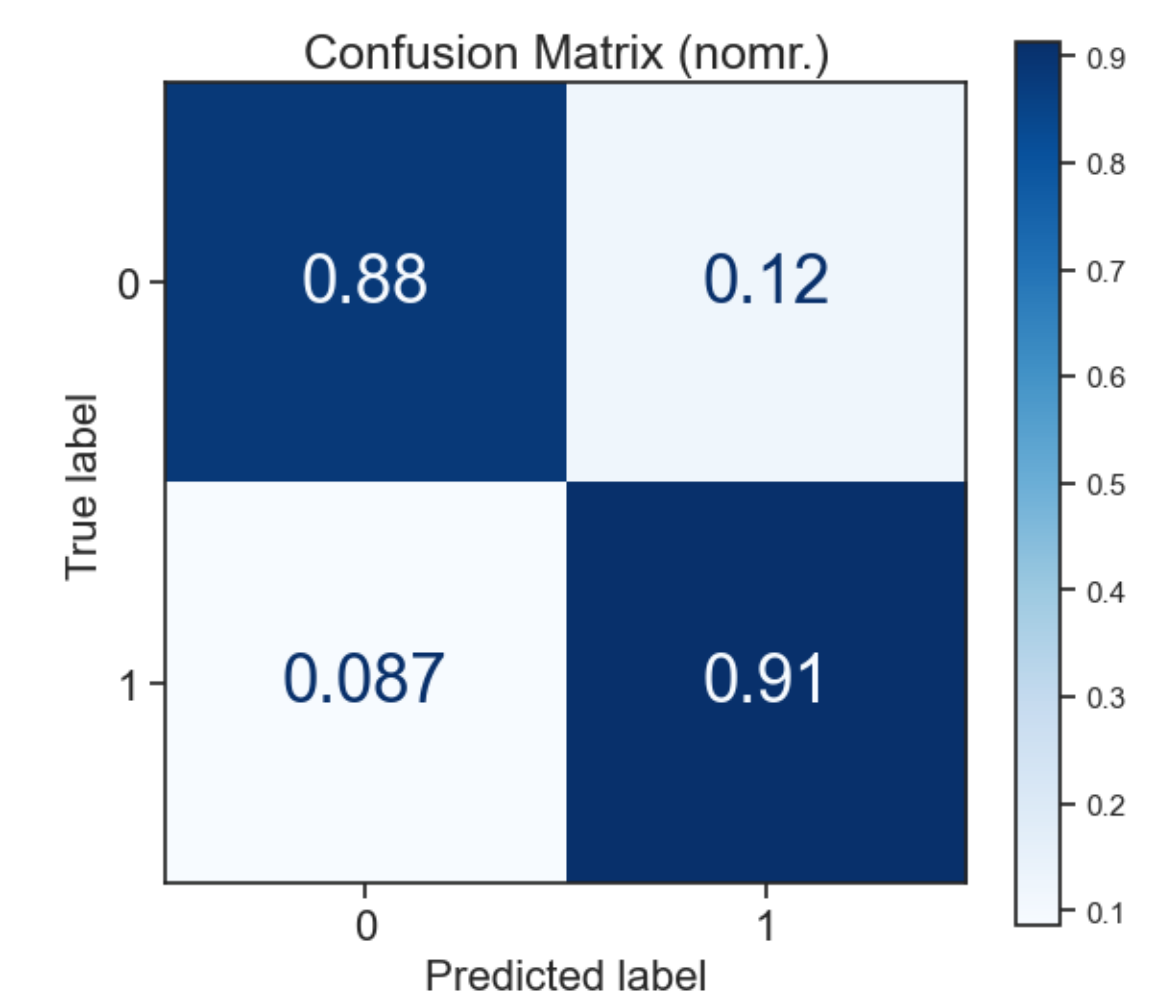
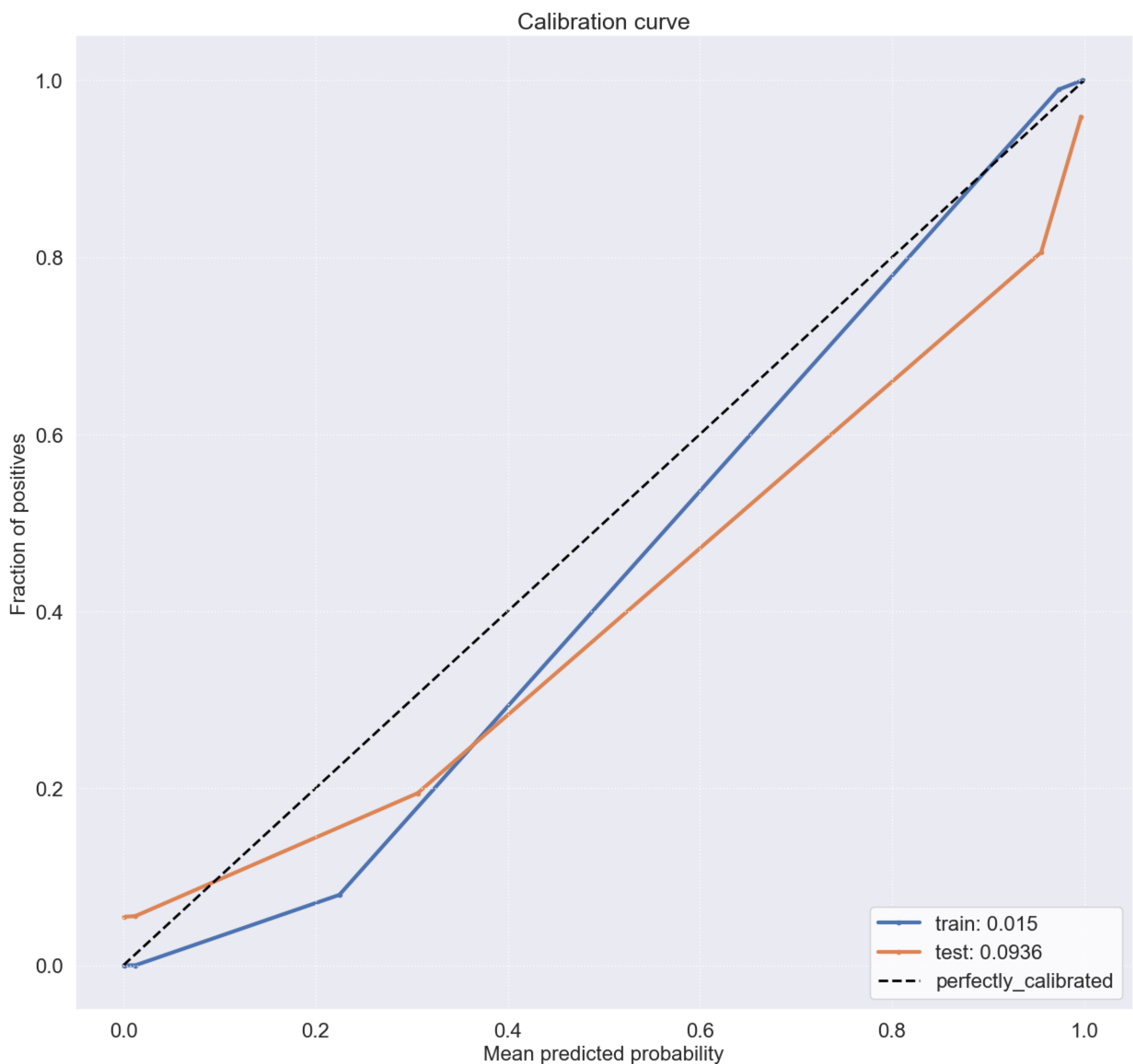
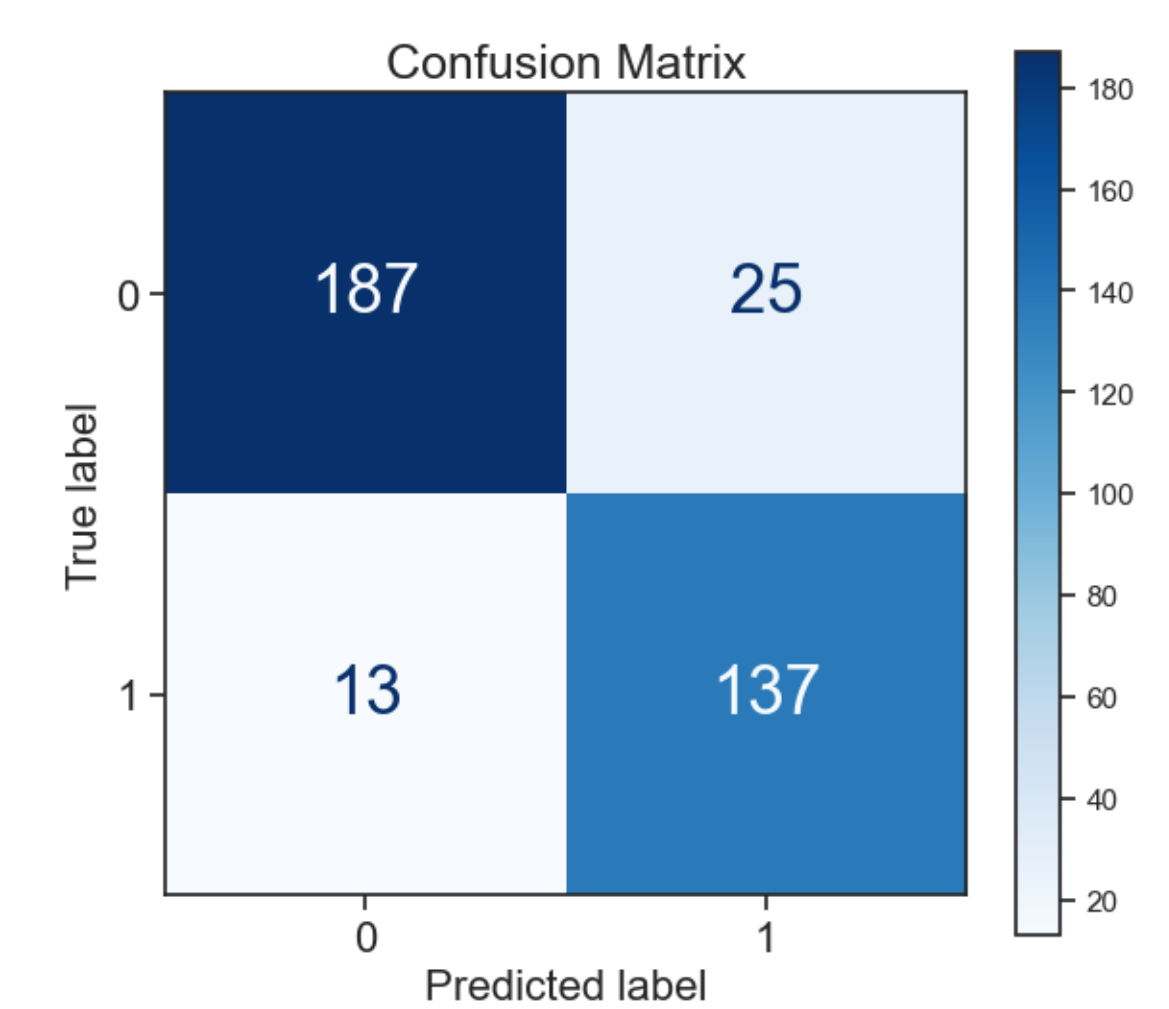
Metric	Train	Test
AUC	0.9973	0.9378
accuracy	0.9758	0.8895
balanced accuracy	0.9771	0.8901
recall_(sens)	0.9849	0.8933
specificity	0.9693	0.8868
precision	0.9577	0.8481
f1_score	0.9758	0.8899



Protein: P03956 - metric: f1



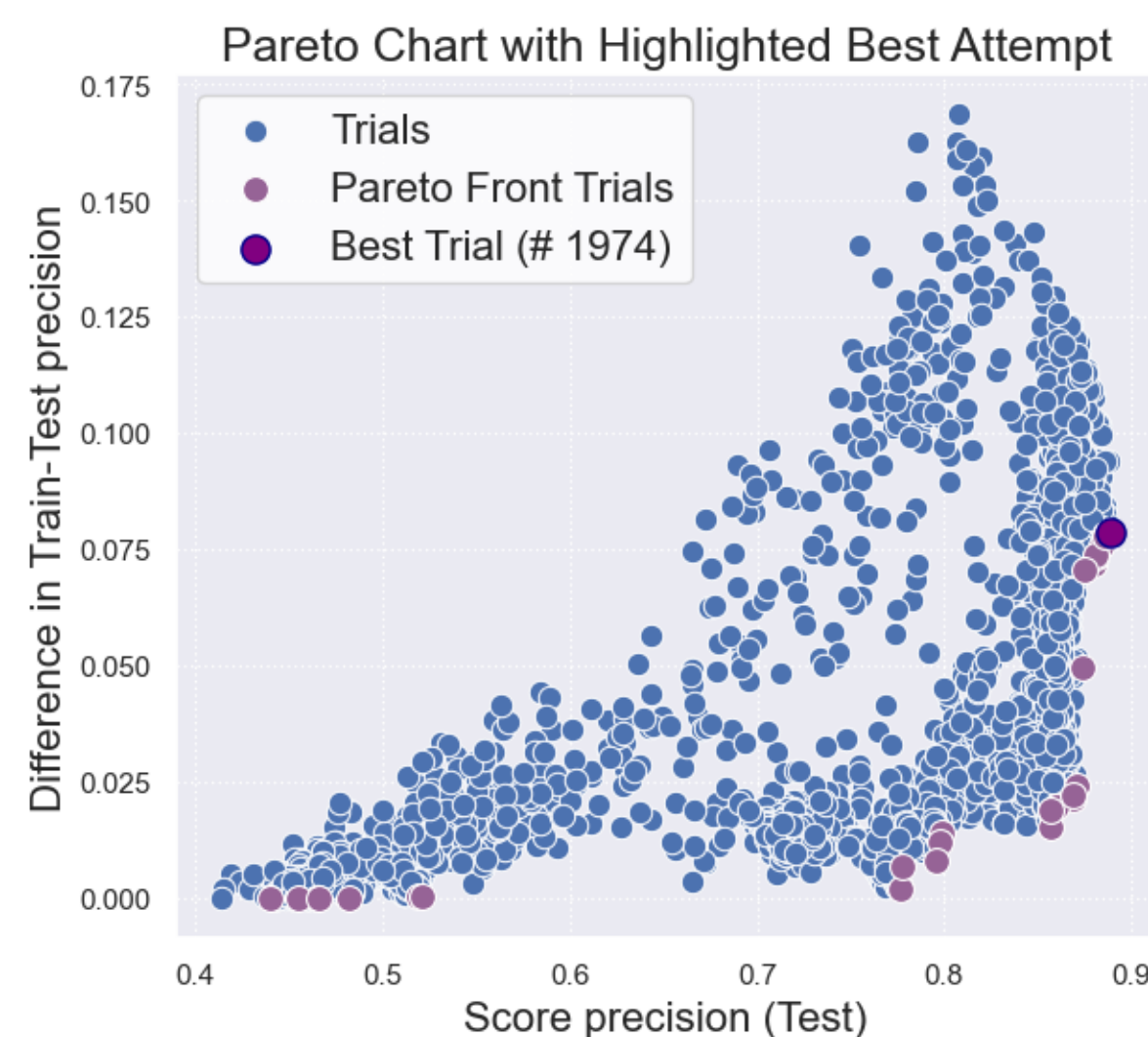
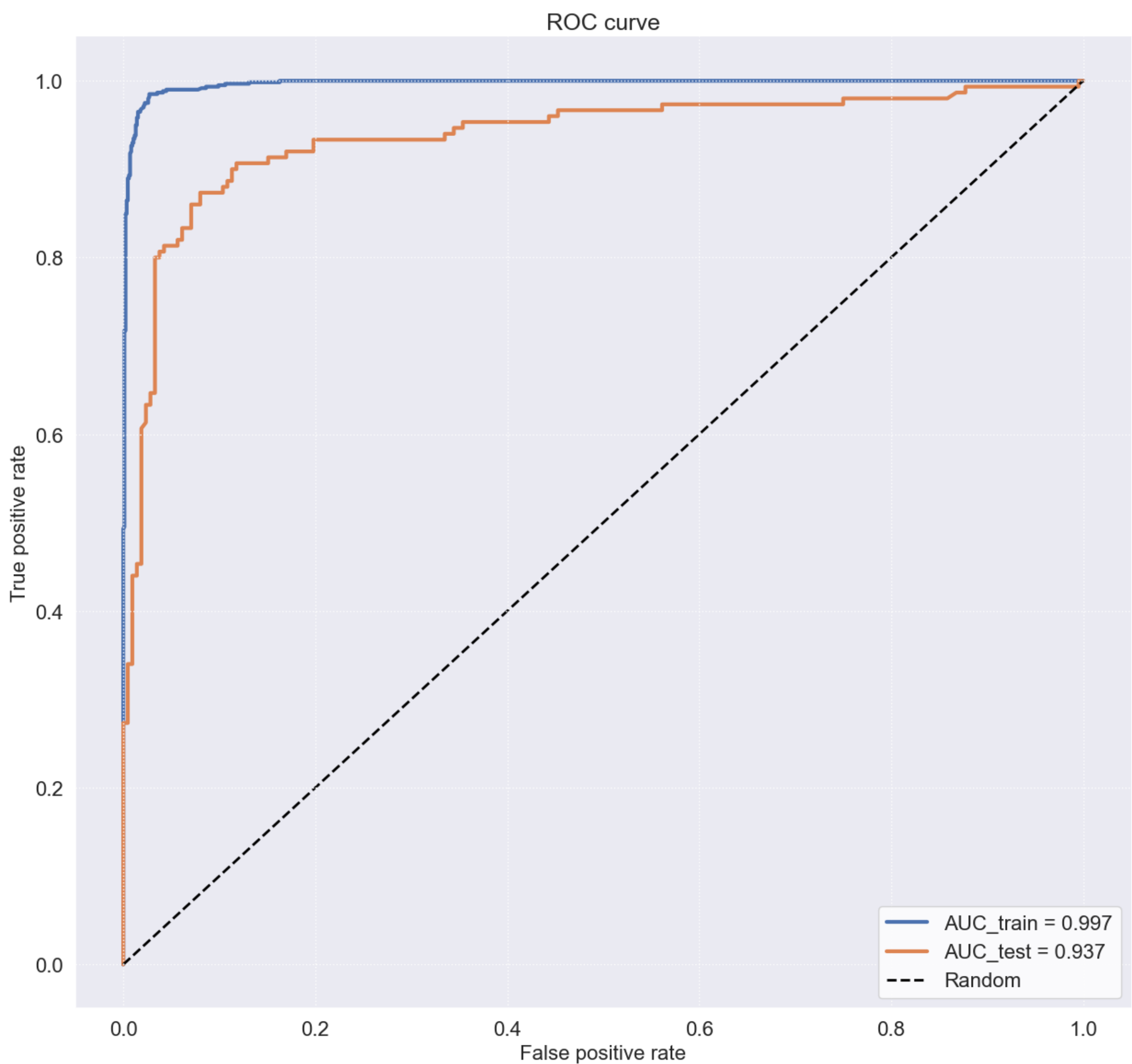
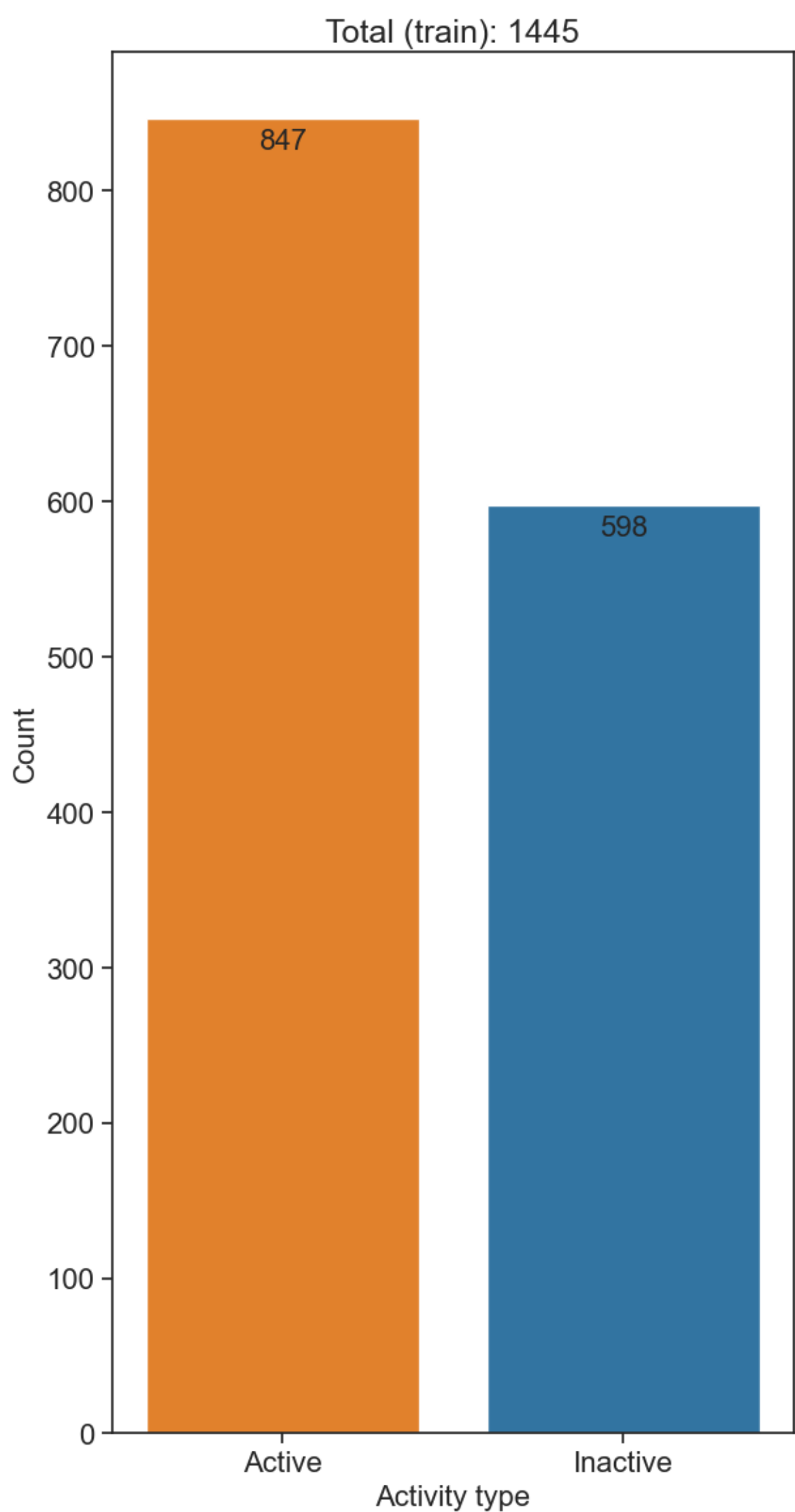
XGBoost Parameters	Value
alpha	1.55
colsample_bytree	0.7758
gamma	0.4821
lambda	2.4773
learning_rate	0.0452
max_depth	9.0
min_child_weight	3.0
n_estimators	947.0
reg_alpha	0.1012
reg_lambda	0.0049
scale_pos_weight	4.3661
subsample	0.7912



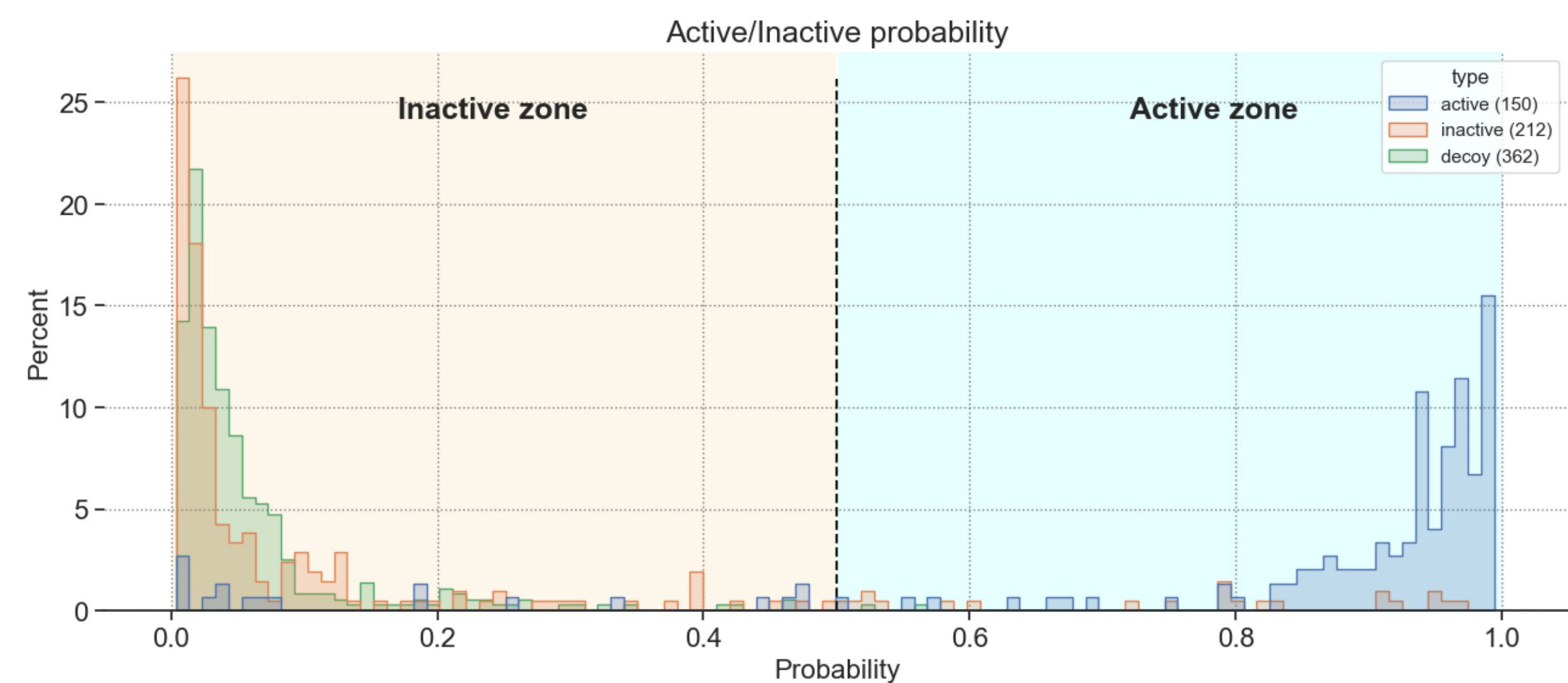
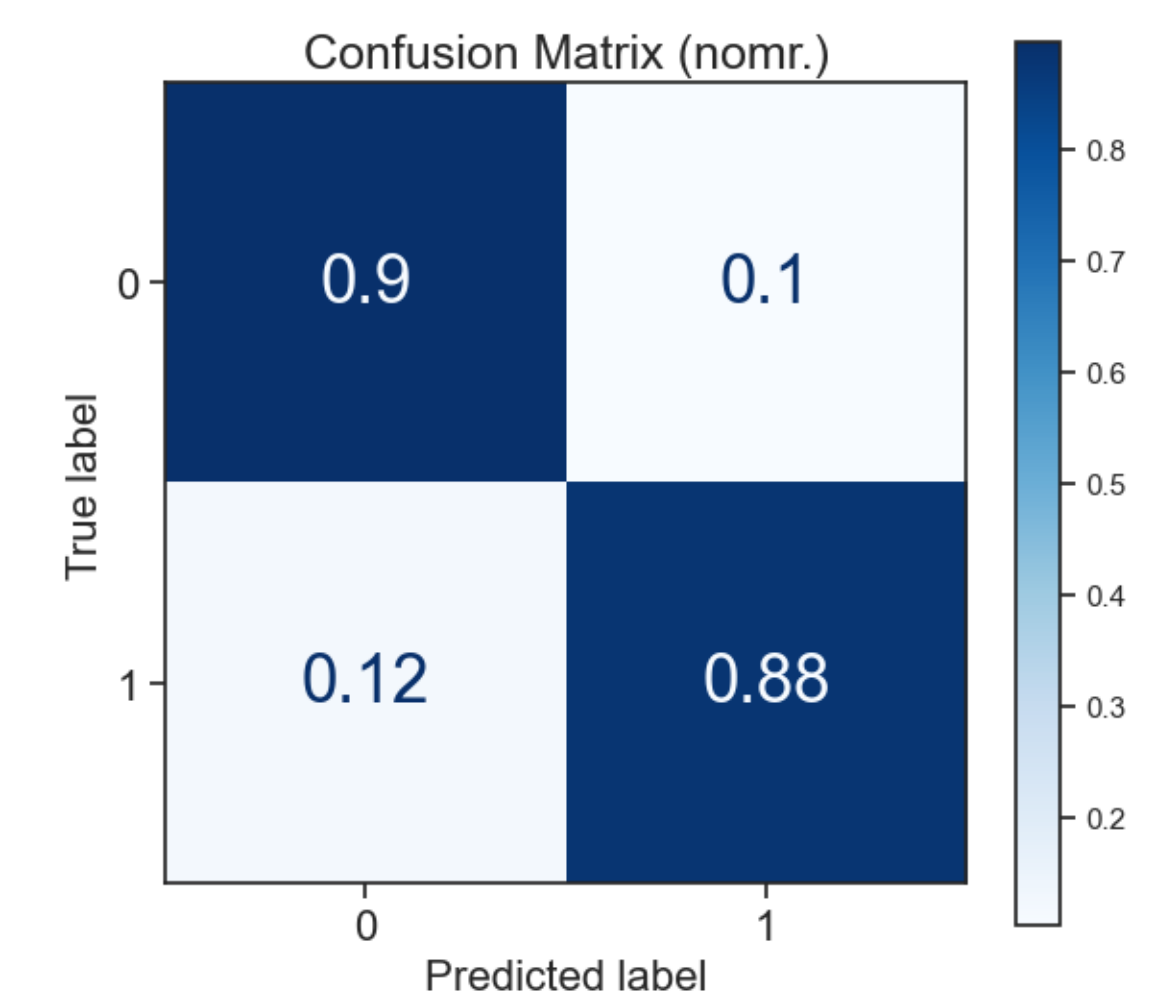
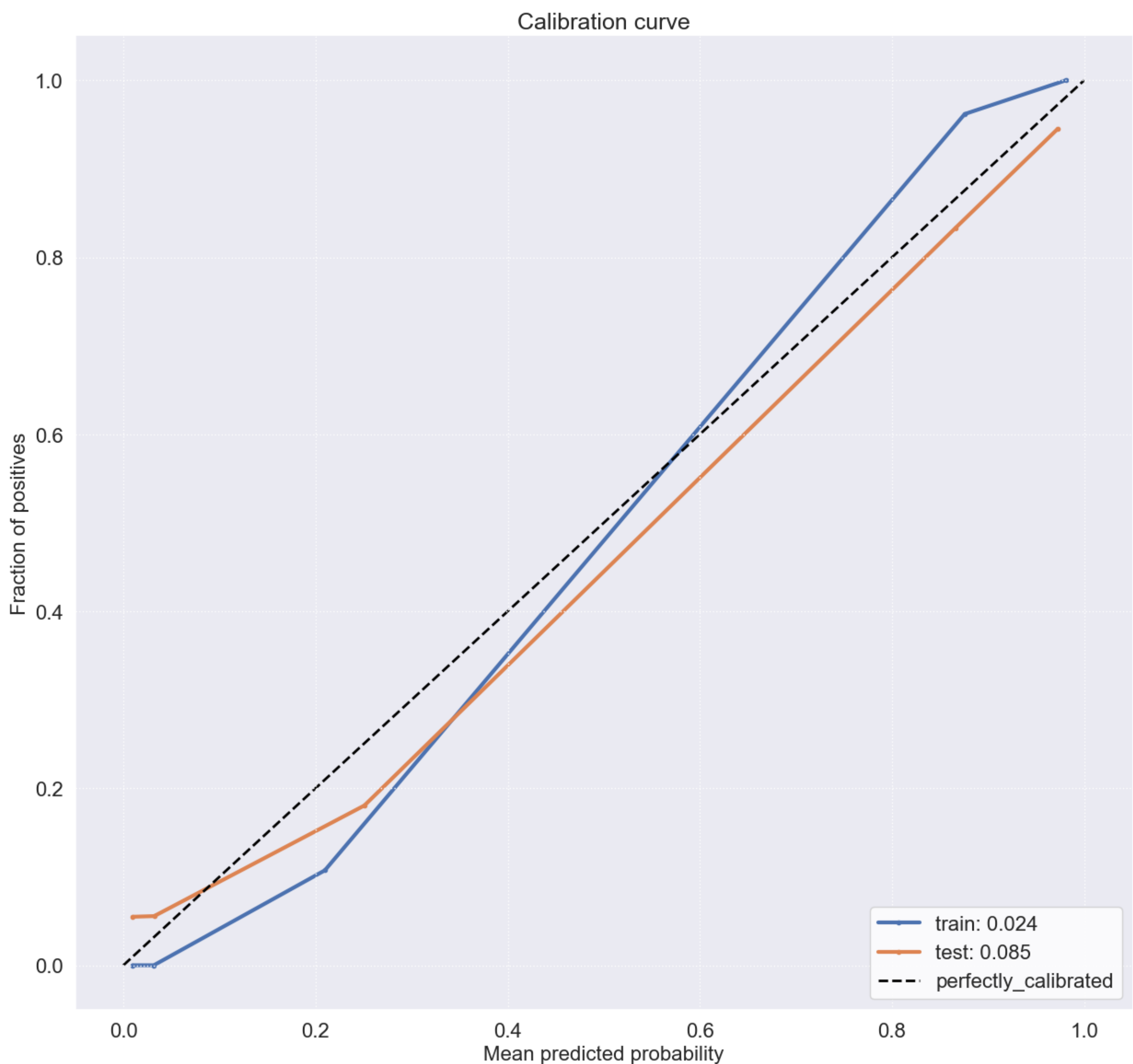
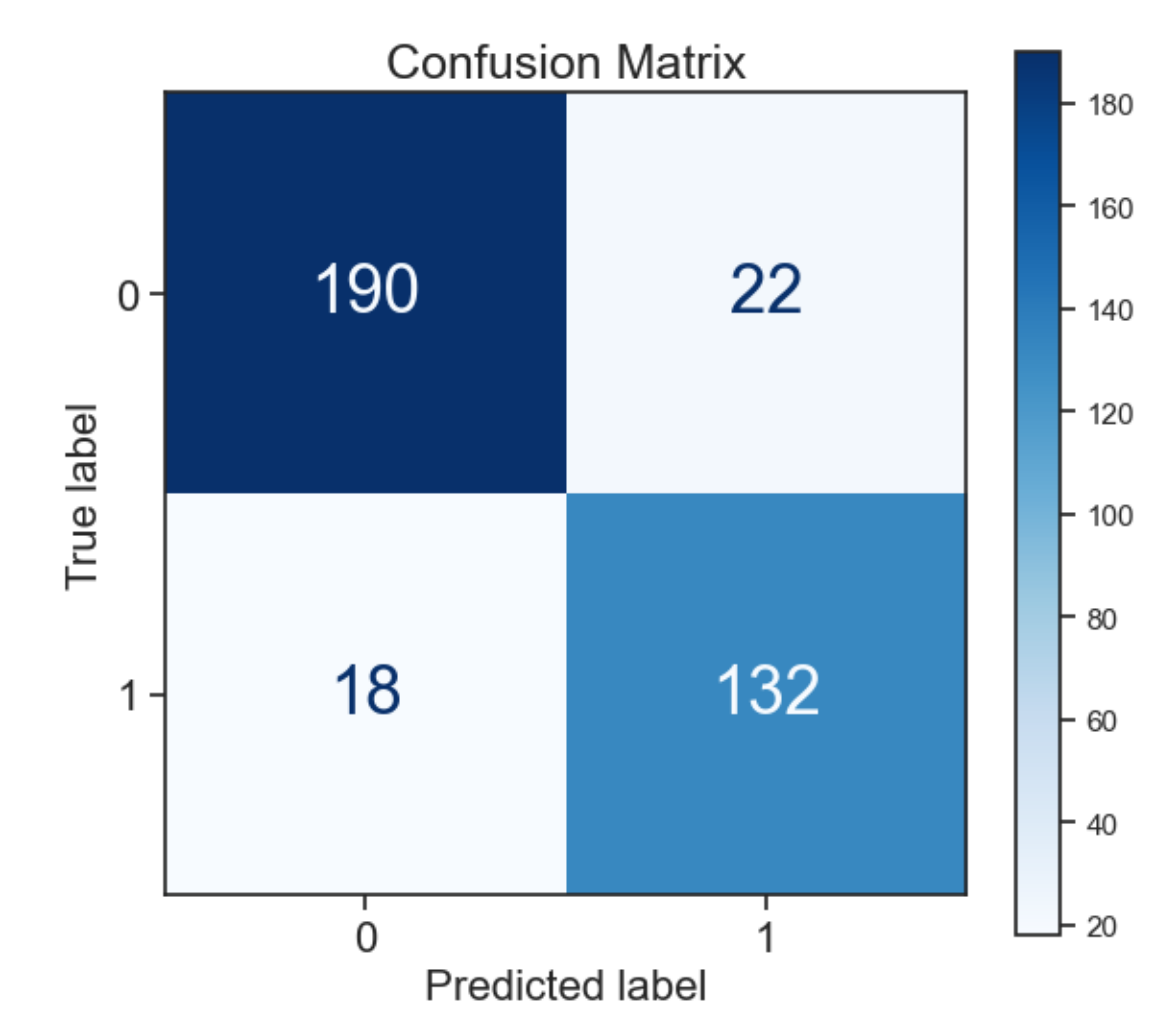
Metric	Train	Test
AUC	0.9992	0.9397
accuracy	0.9799	0.895
balanced accuracy	0.9829	0.8977
recall_(sens)	1.0	0.9133
specificity	0.9658	0.8821
precision	0.9537	0.8457
f1_score	0.98	0.8955



Protein: P03956 - metric: precision



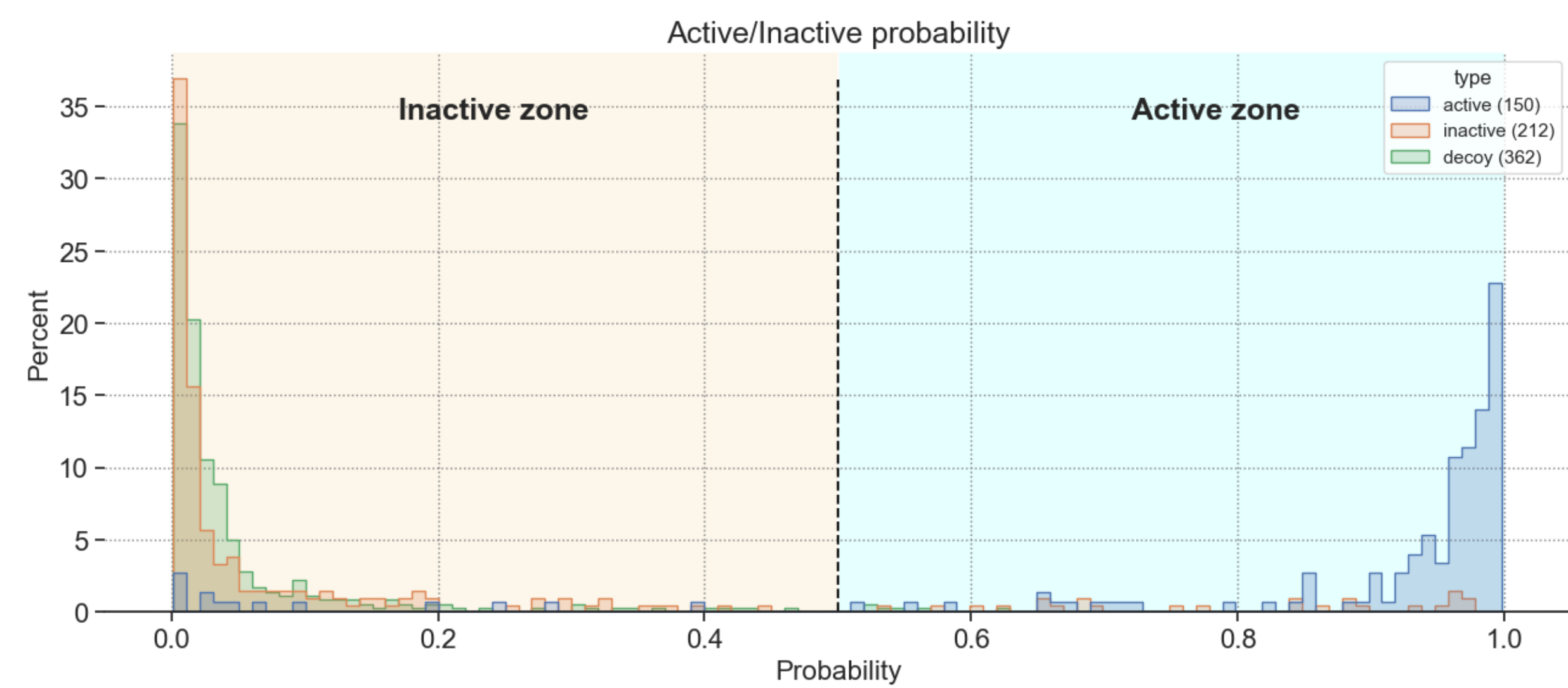
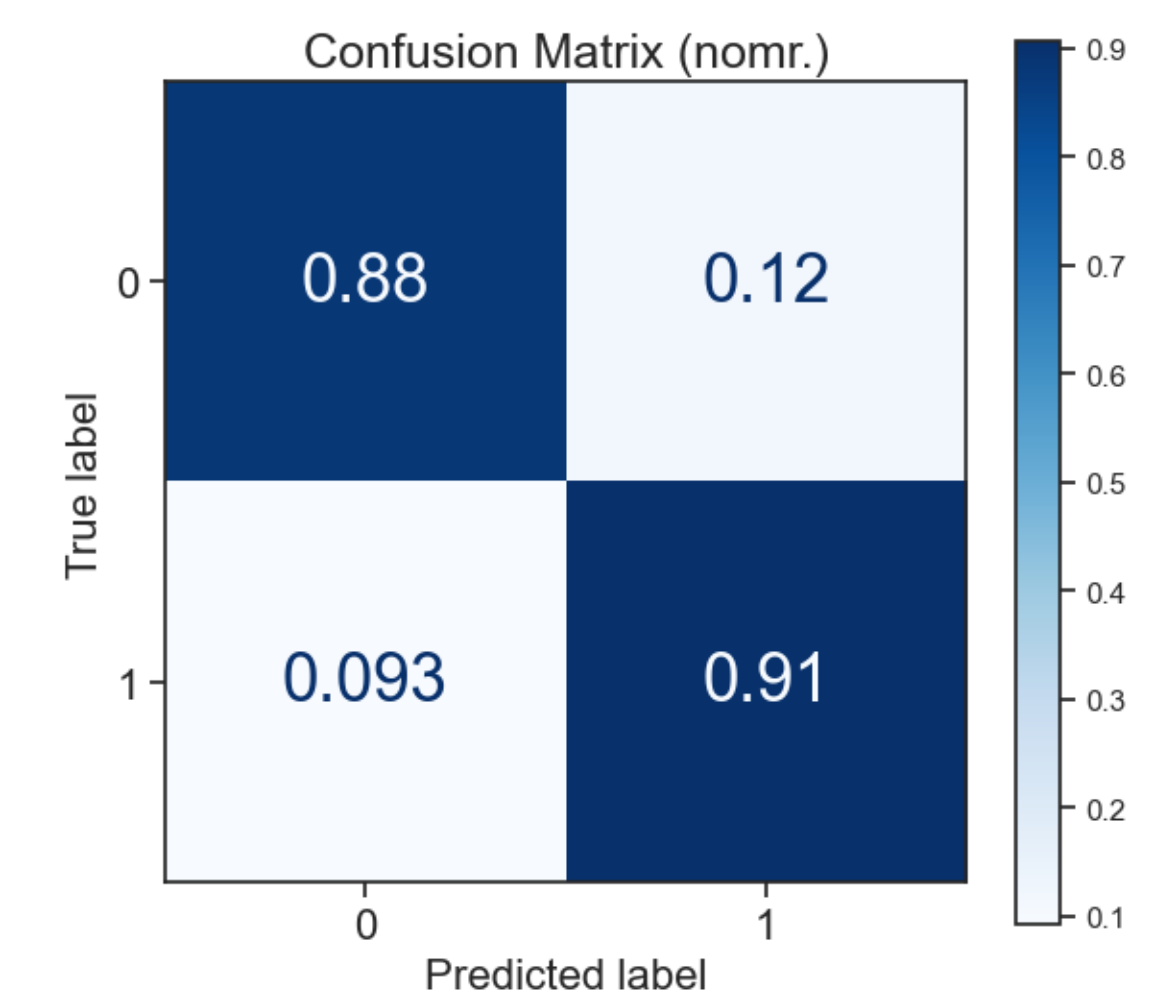
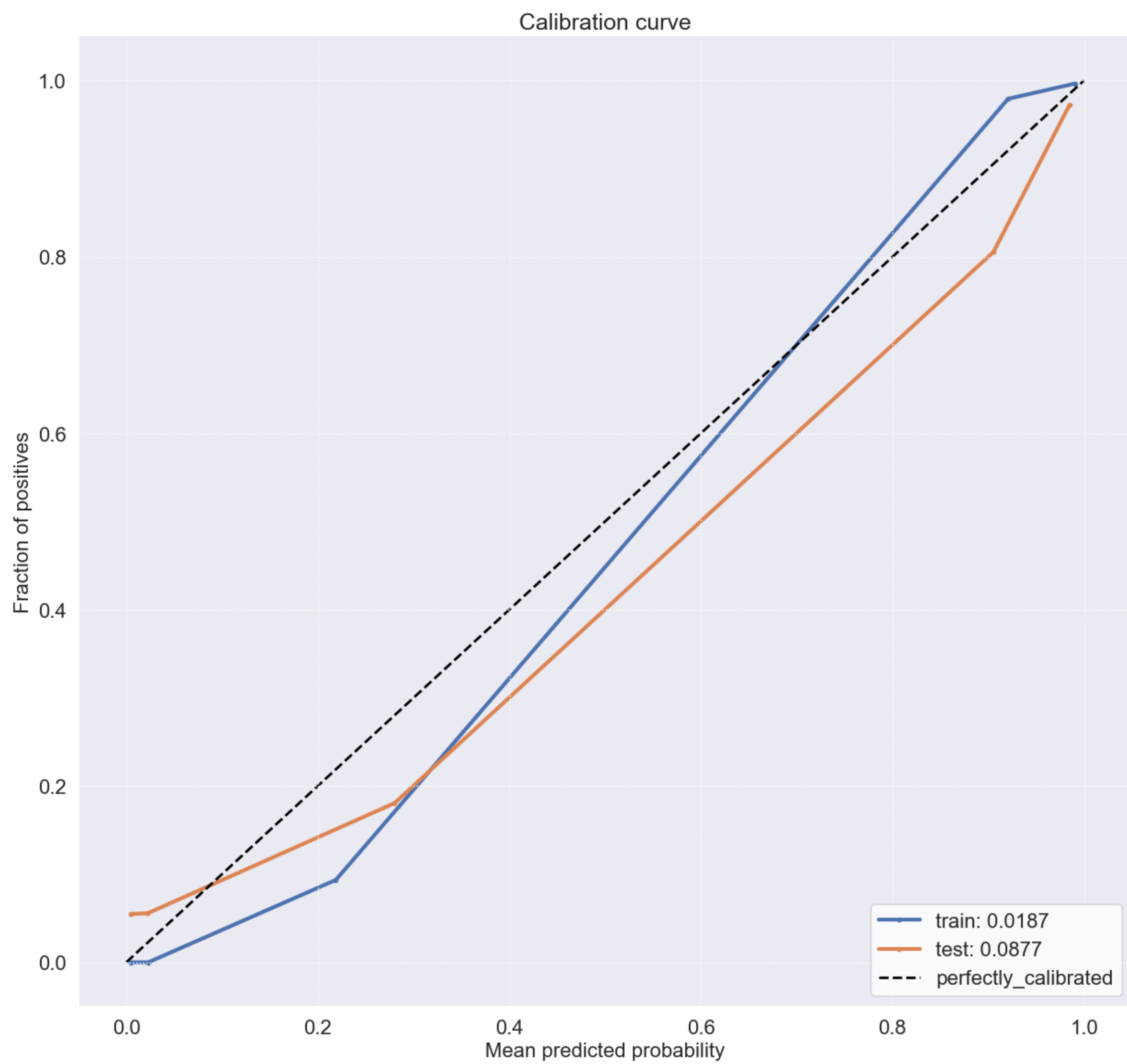
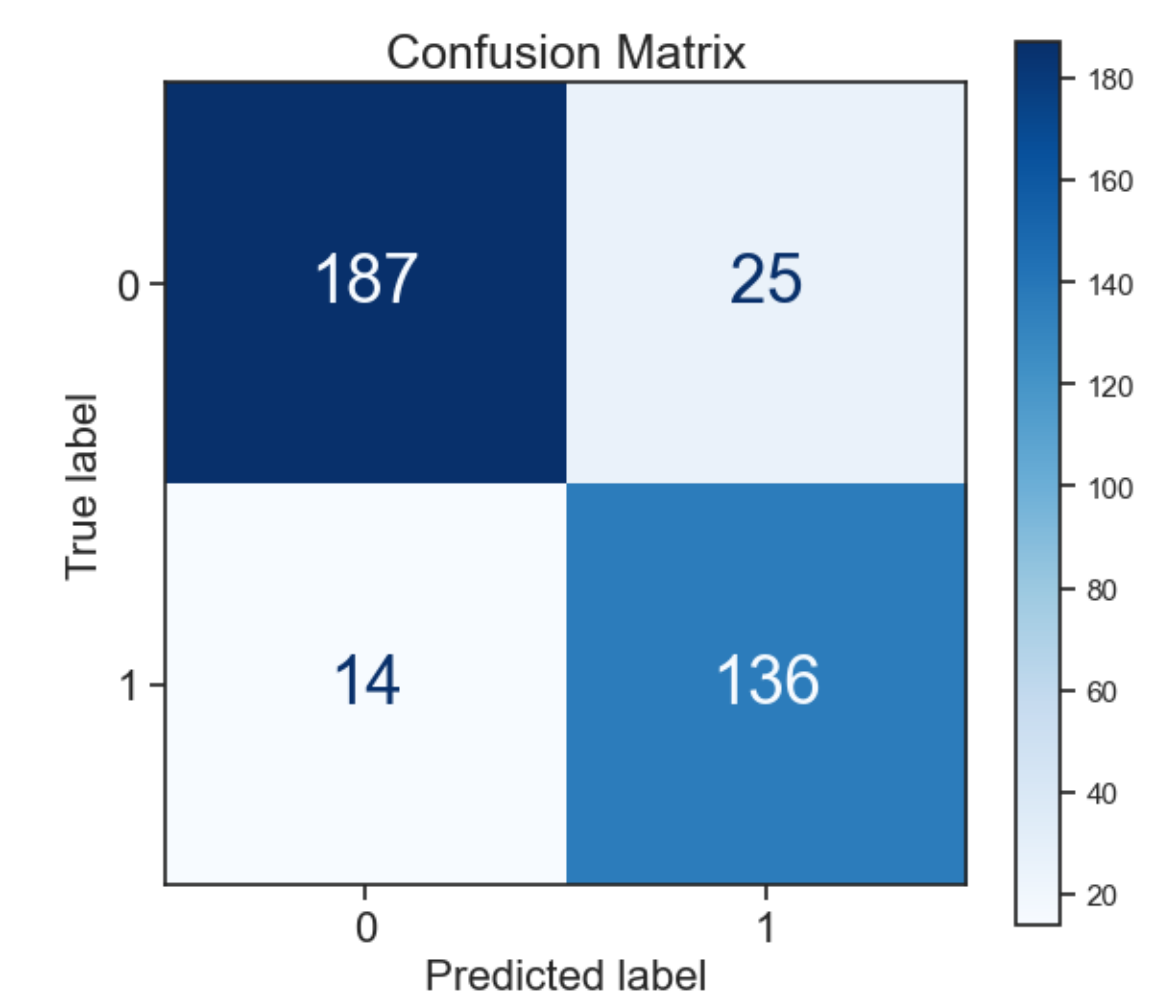
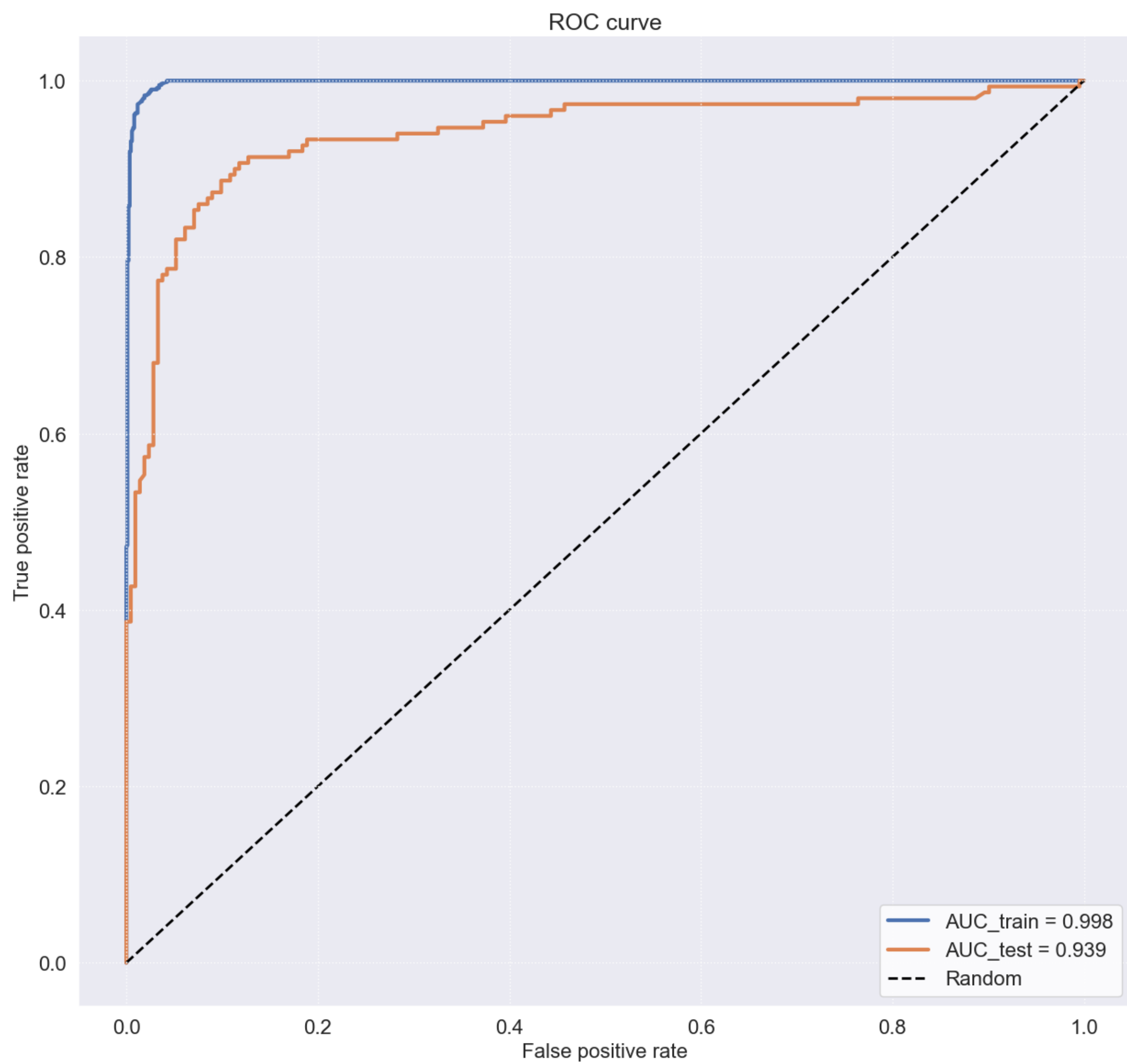
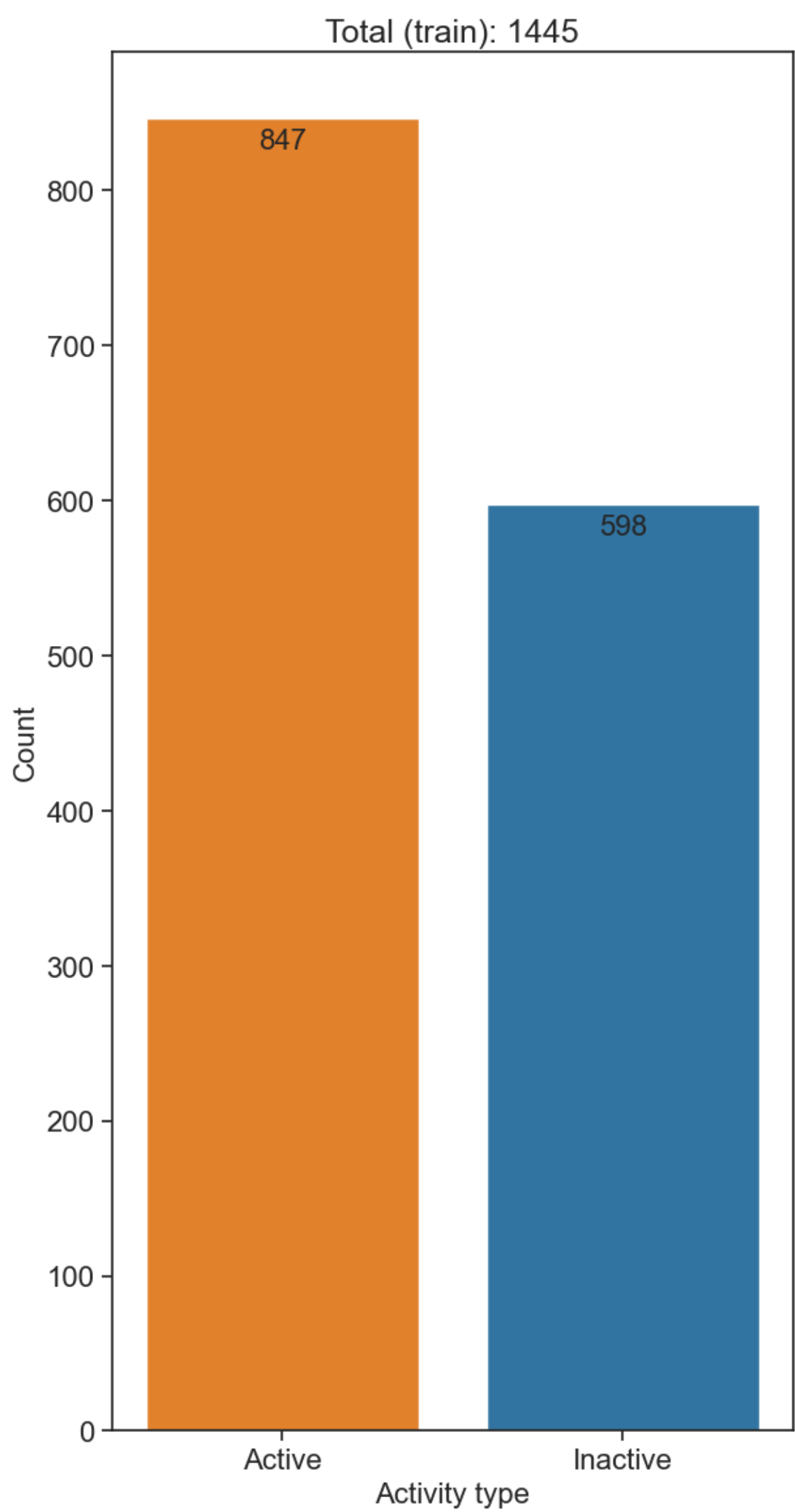
XGBoost Parameters	Value
alpha	0.2074
colsample_bytree	0.736
gamma	0.4446
lambda	3.969
learning_rate	0.0084
max_depth	10.0
min_child_weight	1.0
n_estimators	826.0
reg_alpha	0.1849
reg_lambda	0.0799
scale_pos_weight	1.2361
subsample	0.6487



Metric	Train	Test
AUC	0.9967	0.9366
accuracy	0.9744	0.8895
balanced accuracy	0.9745	0.8881
recall_(sens)	0.9749	0.88
specificity	0.974	0.8962
precision	0.9636	0.8571
f1_score	0.9744	0.8897



Protein: P03956 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9982	0.939
accuracy	0.9785	0.8923
balanced accuracy	0.9802	0.8944
recall_(sens)	0.99	0.9067
specificity	0.9705	0.8821
precision	0.9595	0.8447
f1_score	0.9786	0.8927