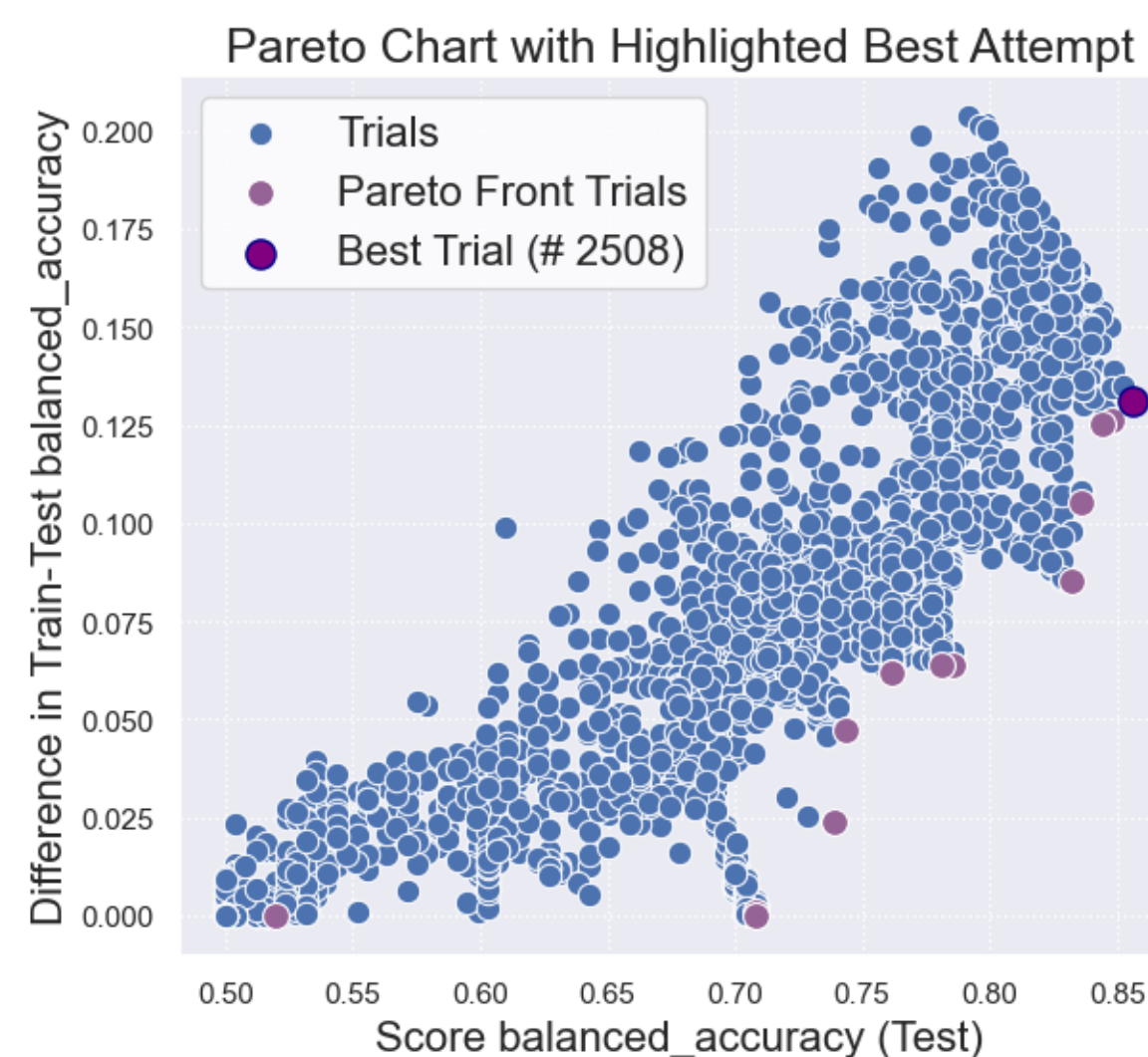
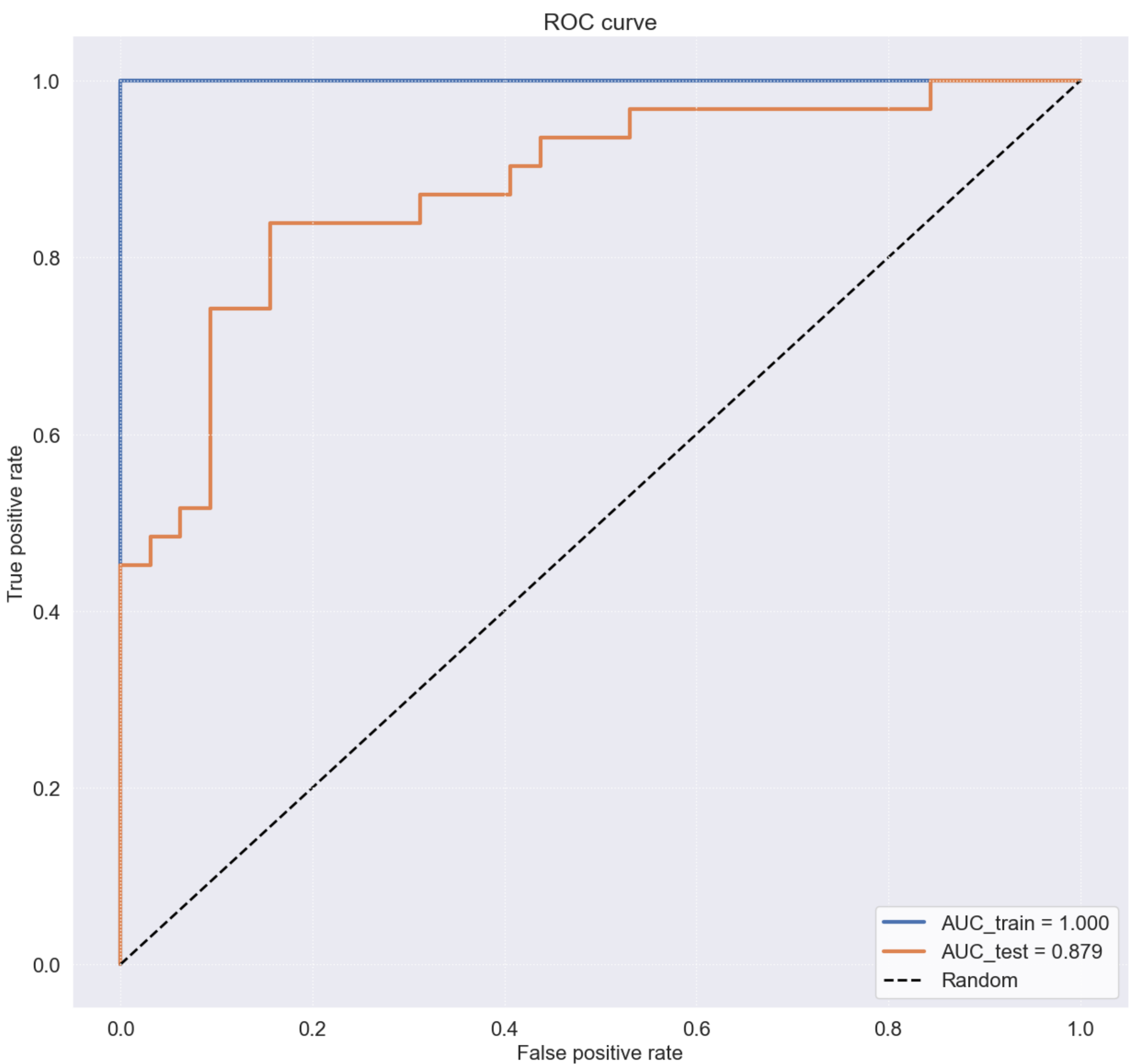
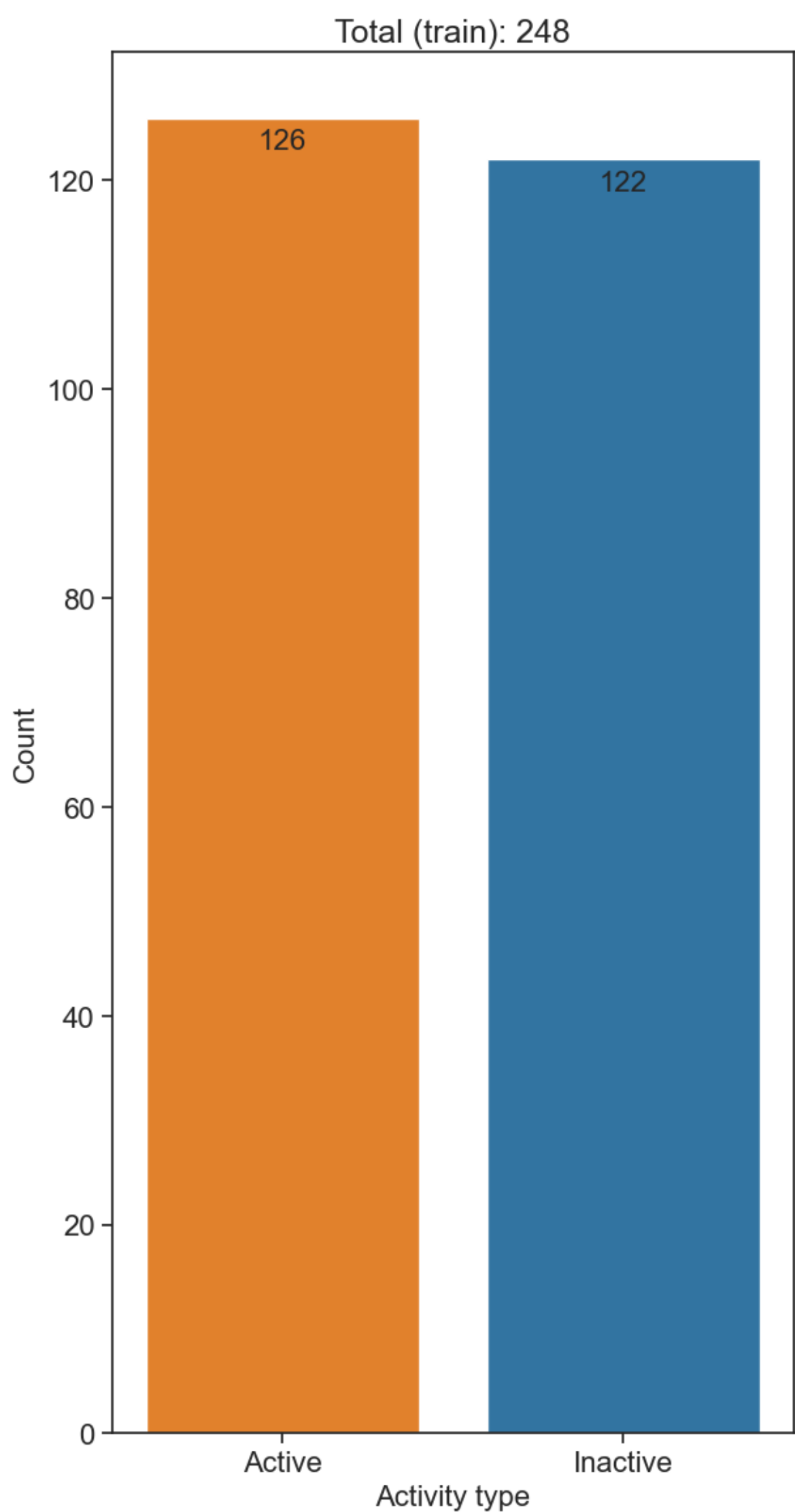
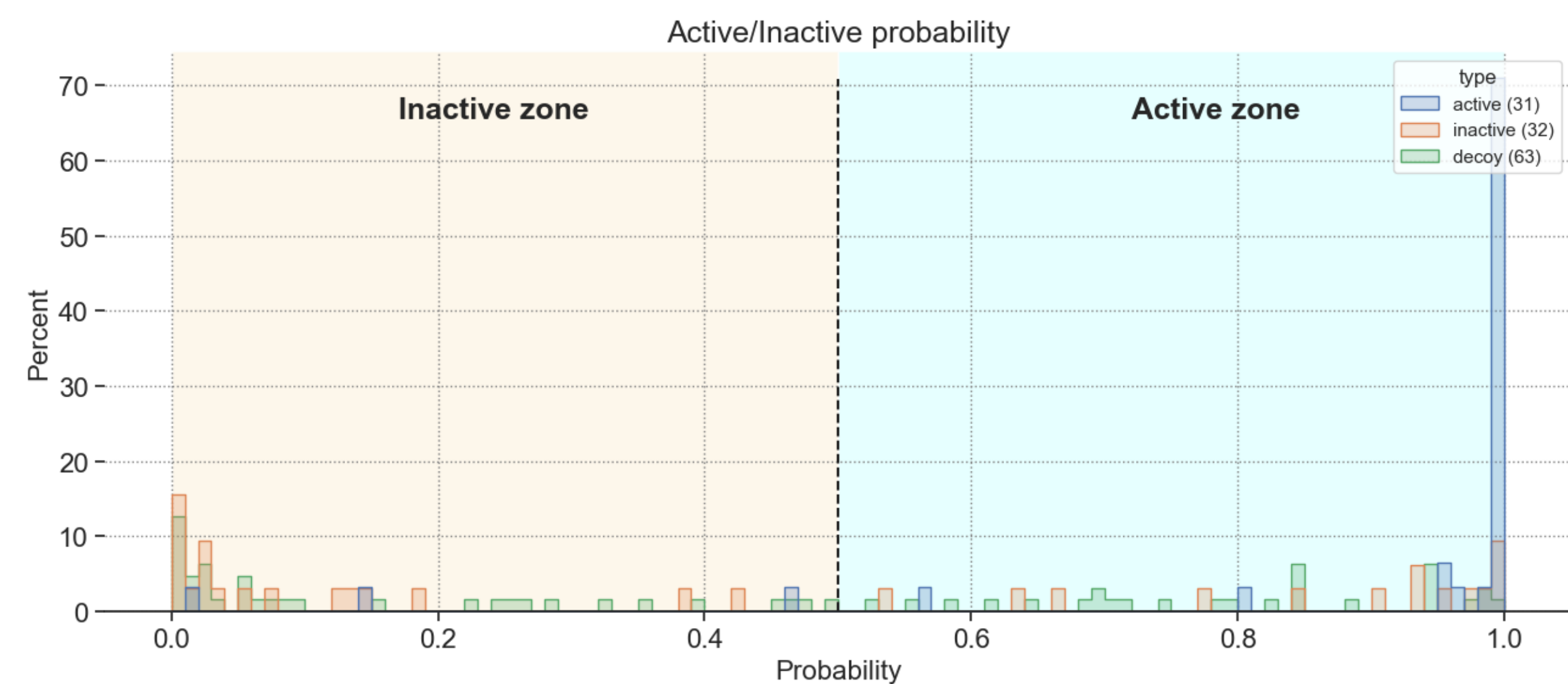
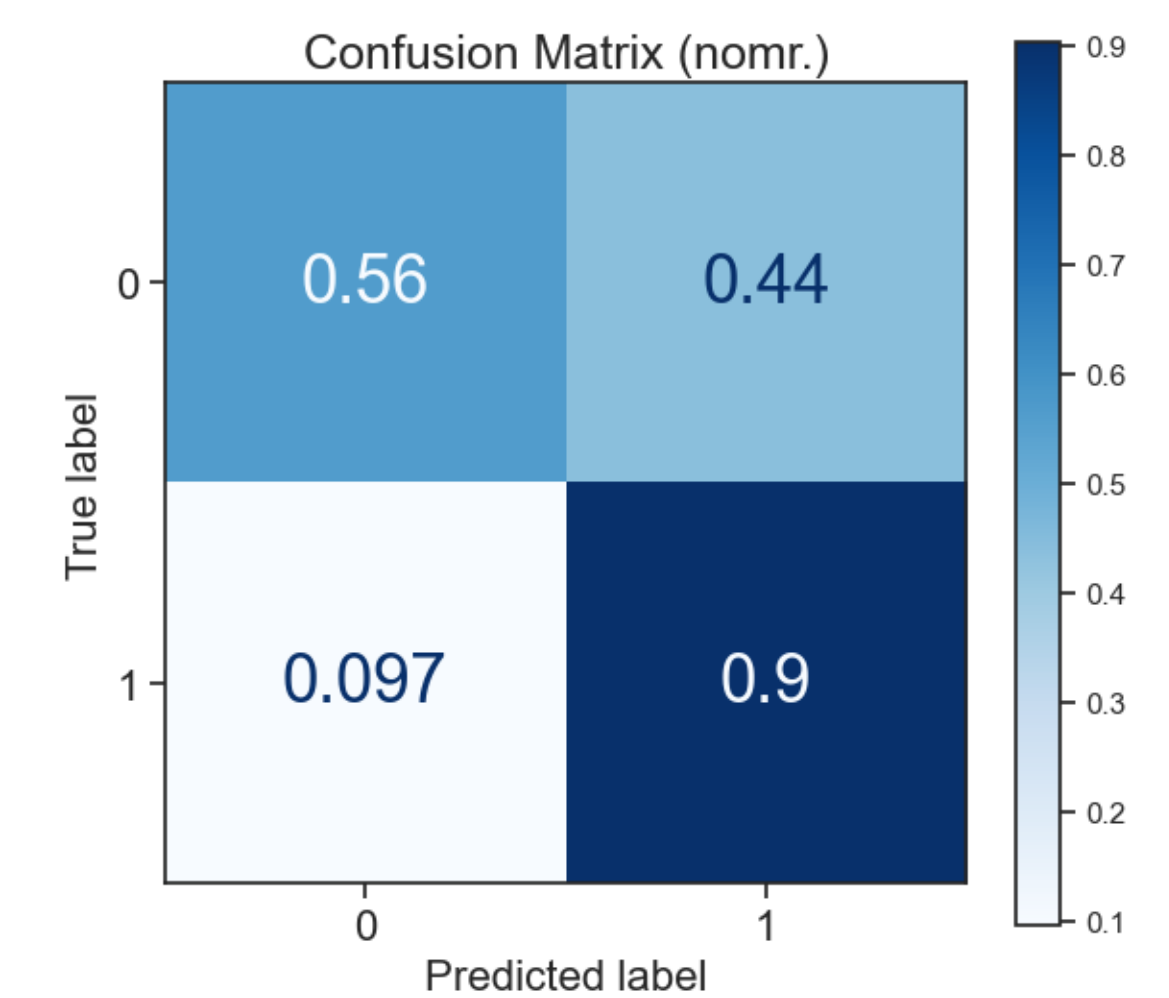
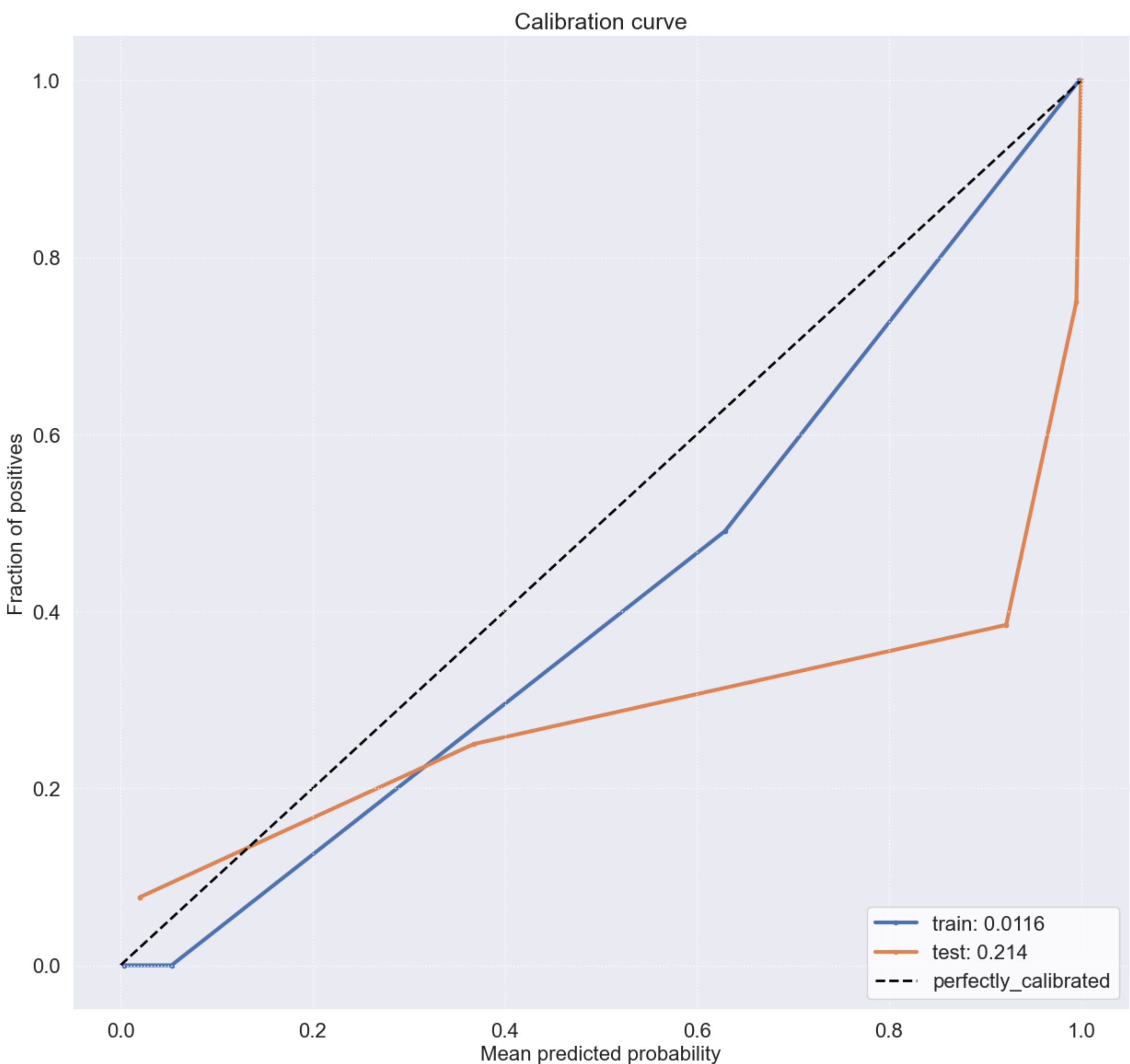
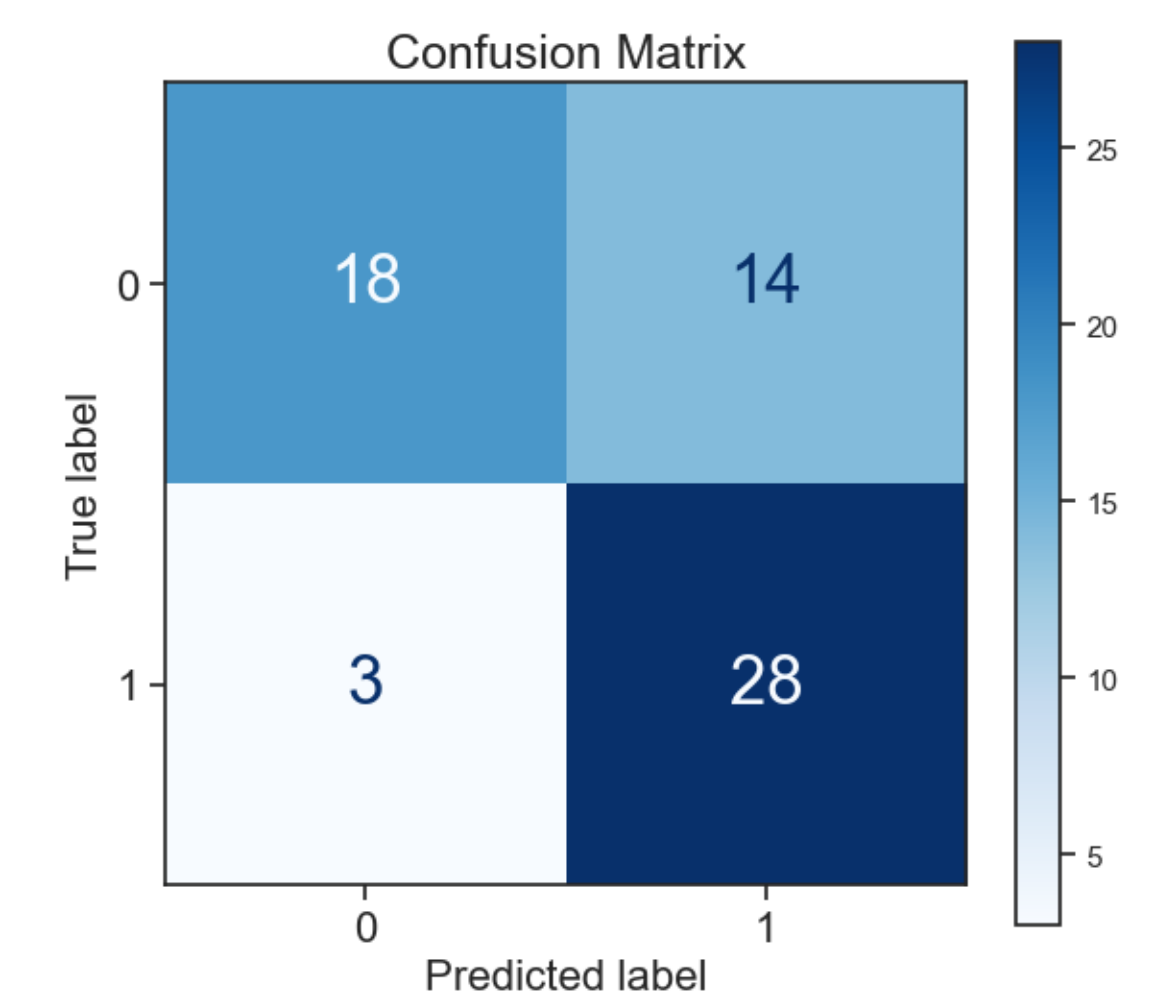


Protein: P18089 - metric: balanced_accuracy

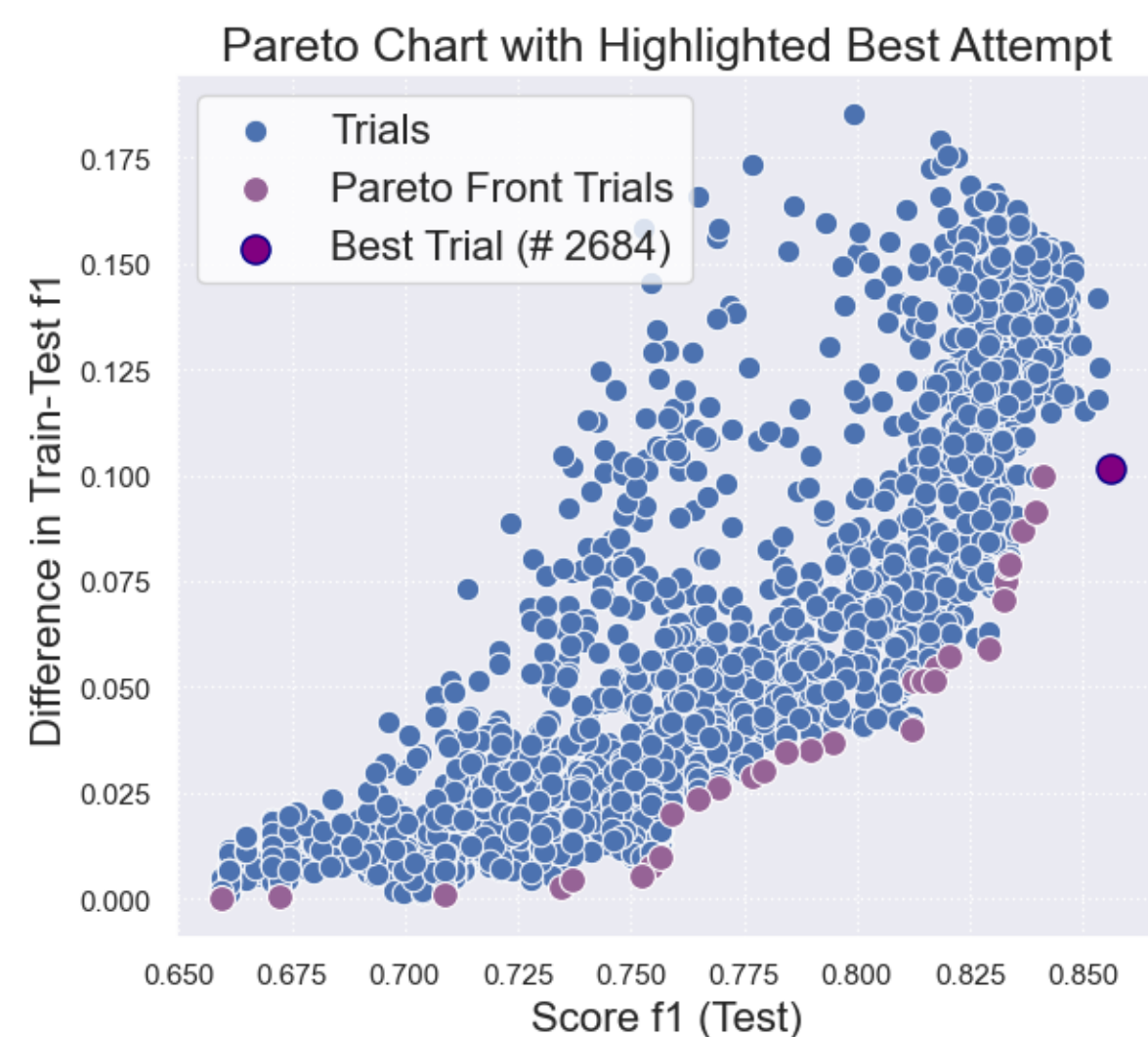
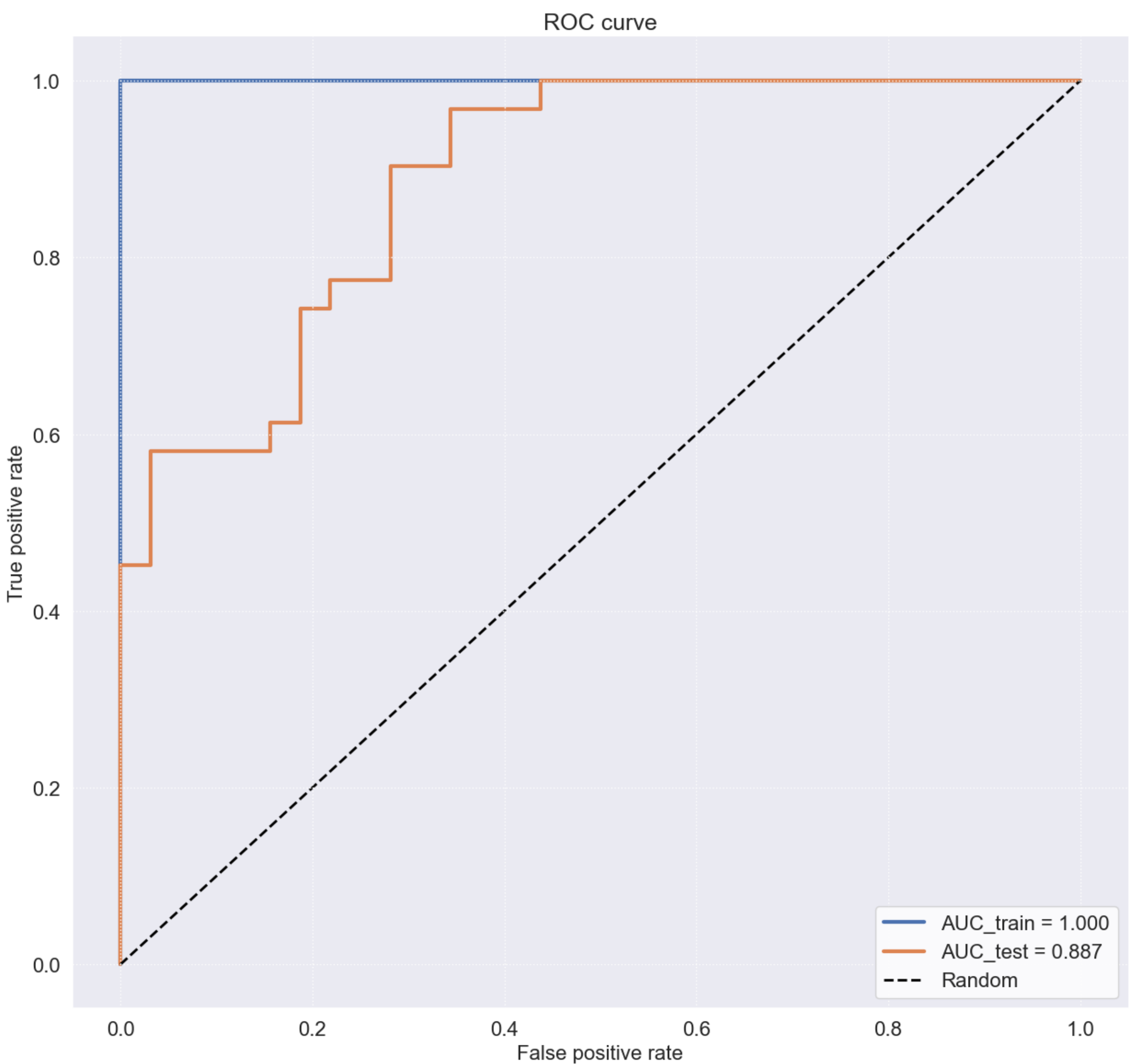
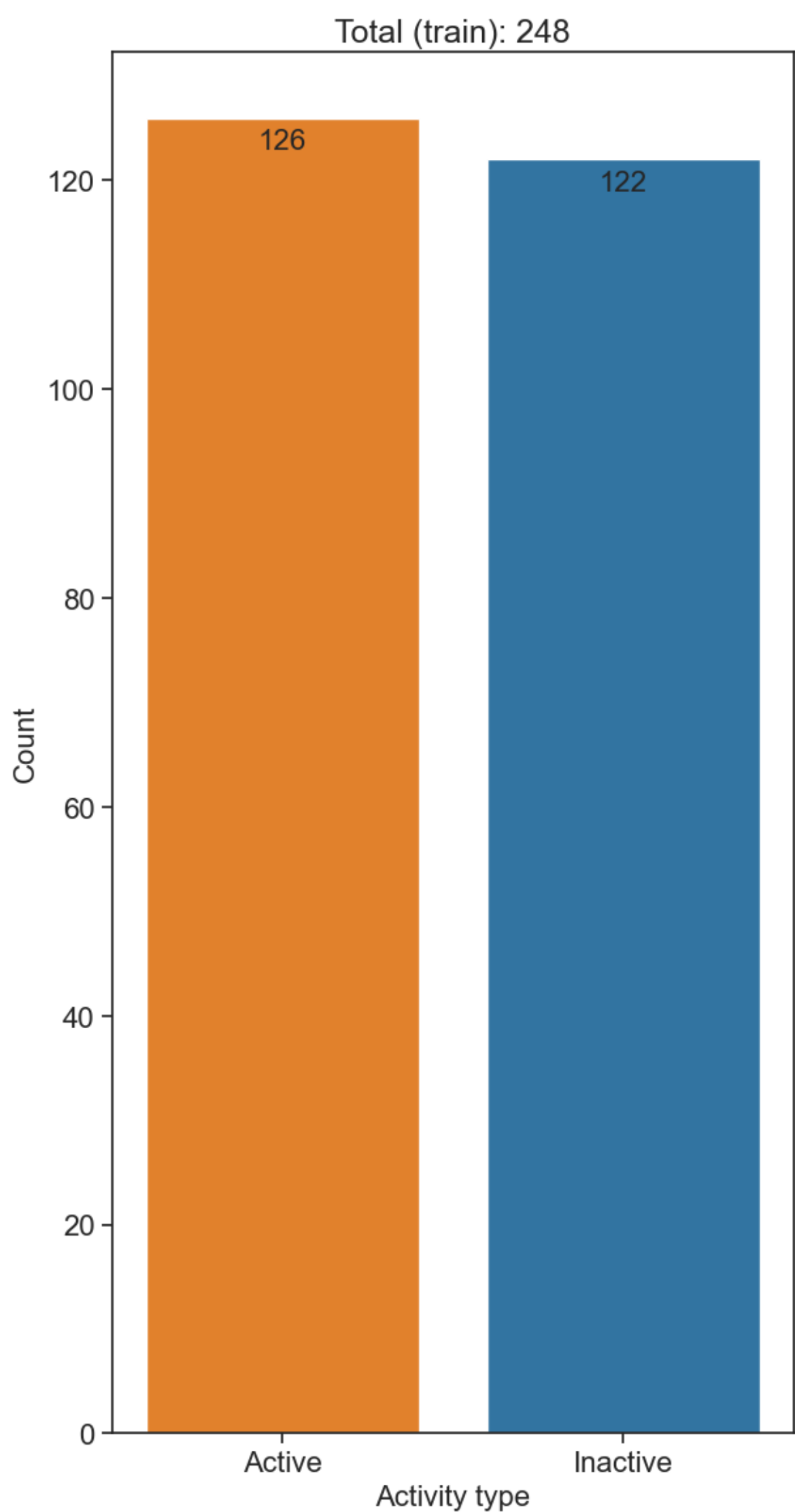


XGBoost Parameters	Value
alpha	3.0337
colsample_bytree	0.8496
gamma	0.2838
lambda	2.335
learning_rate	0.4234
max_depth	8.0
min_child_weight	1.0
n_estimators	342.0
reg_alpha	0.9749
reg_lambda	0.8468
scale_pos_weight	33.9549
subsample	0.7487

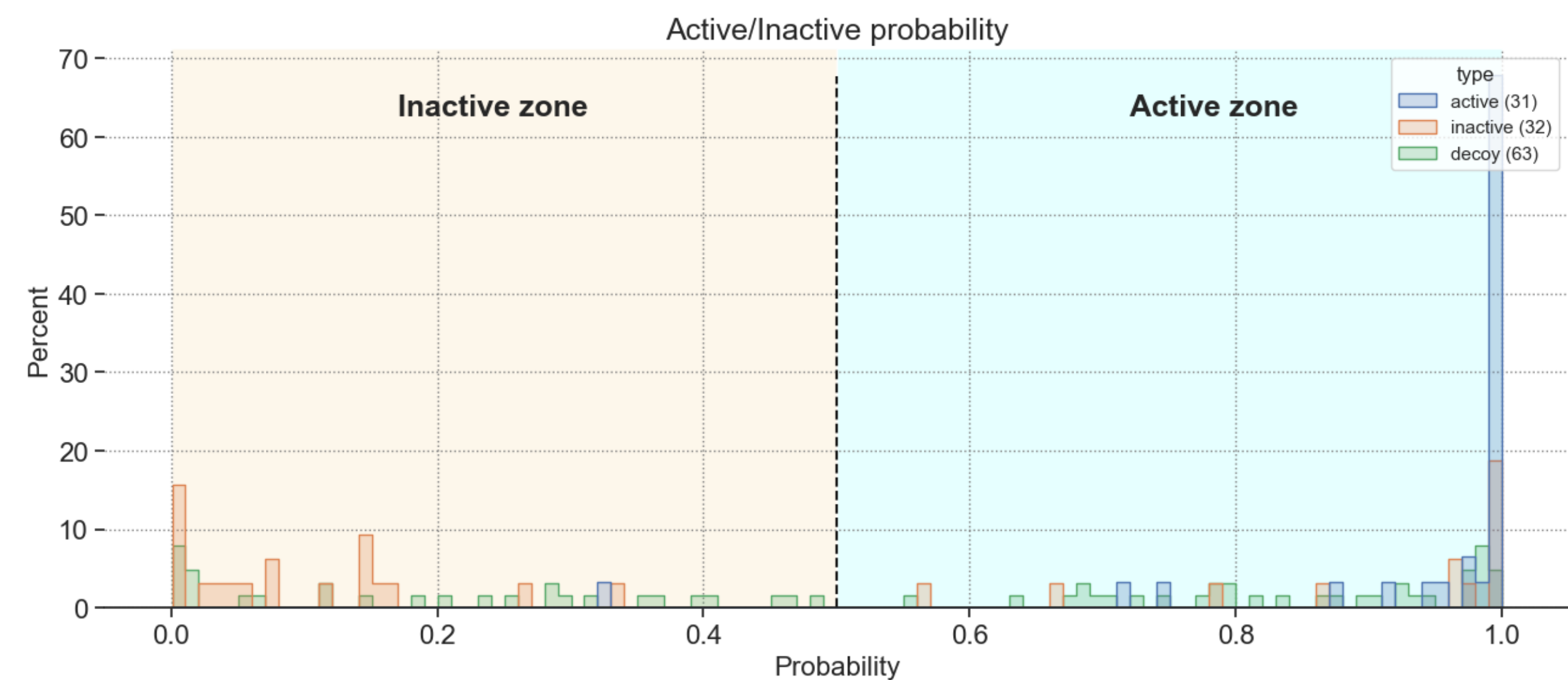
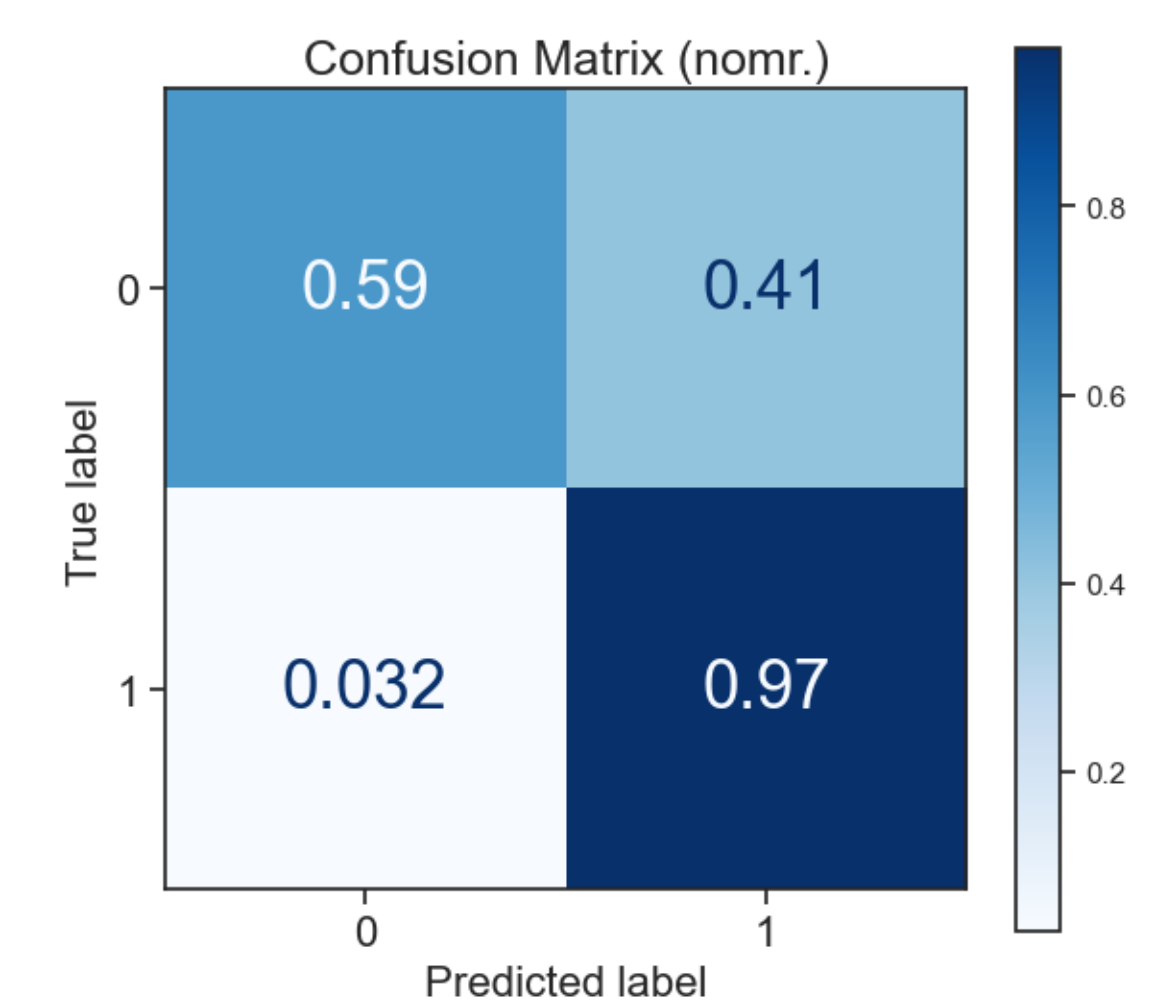
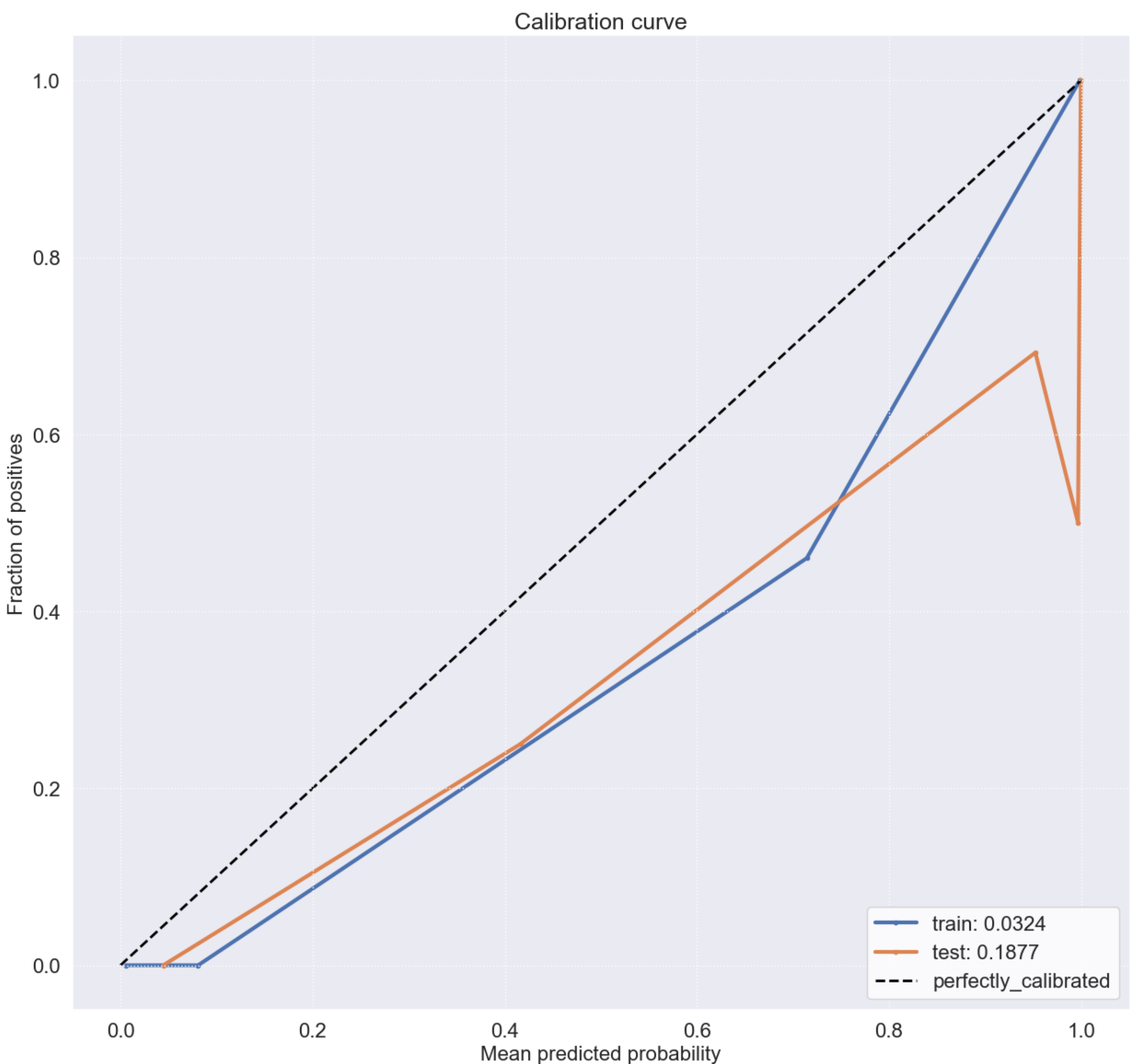
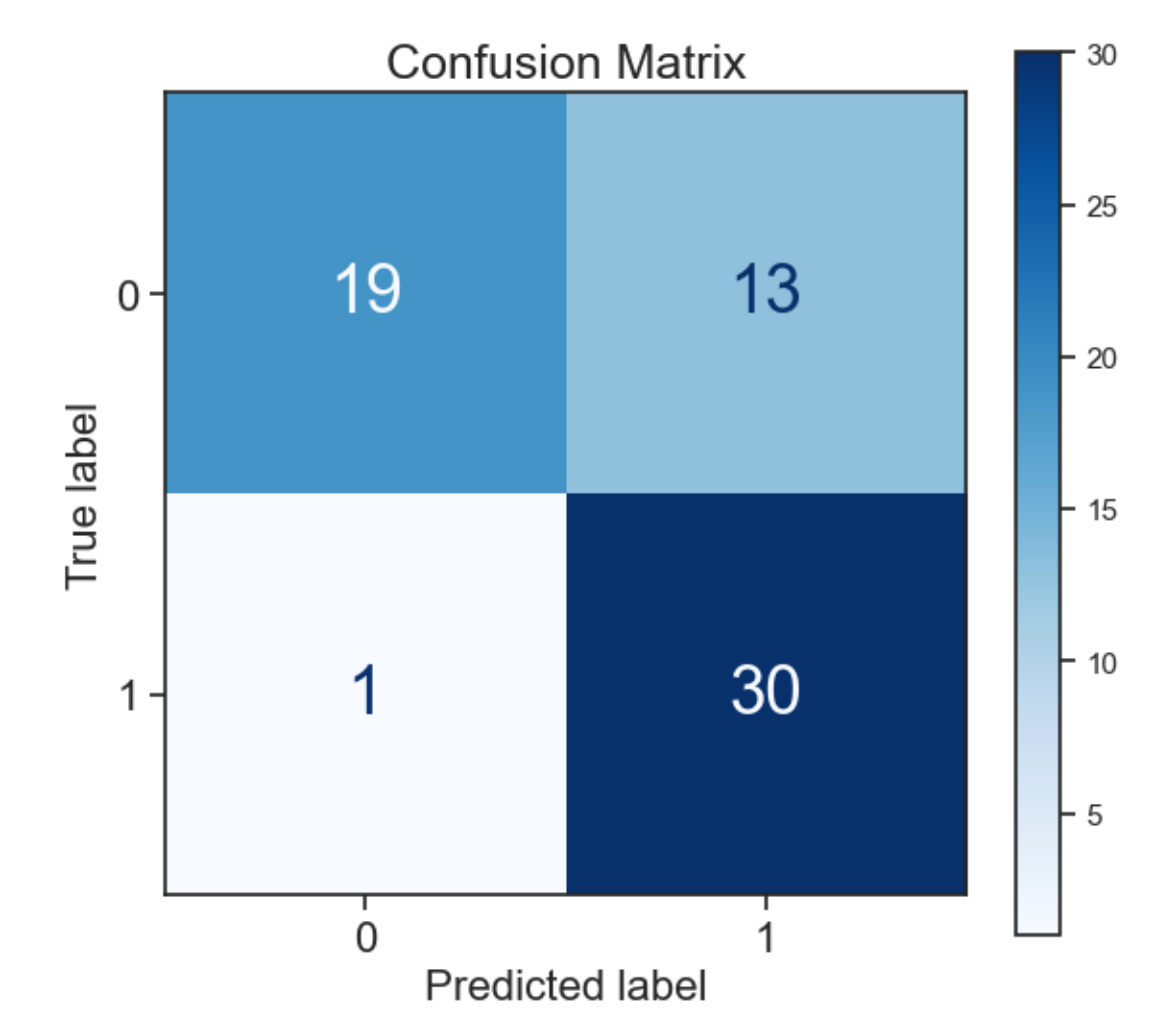


Metric	Train	Test
AUC	1.0	0.879
accuracy	0.9879	0.7302
balanced accuracy	0.9881	0.7329
recall_(sens)	1.0	0.9032
specificity	0.9762	0.5625
precision	0.976	0.6667
f1_score	0.9879	0.7225

Protein: P18089 - metric: f1

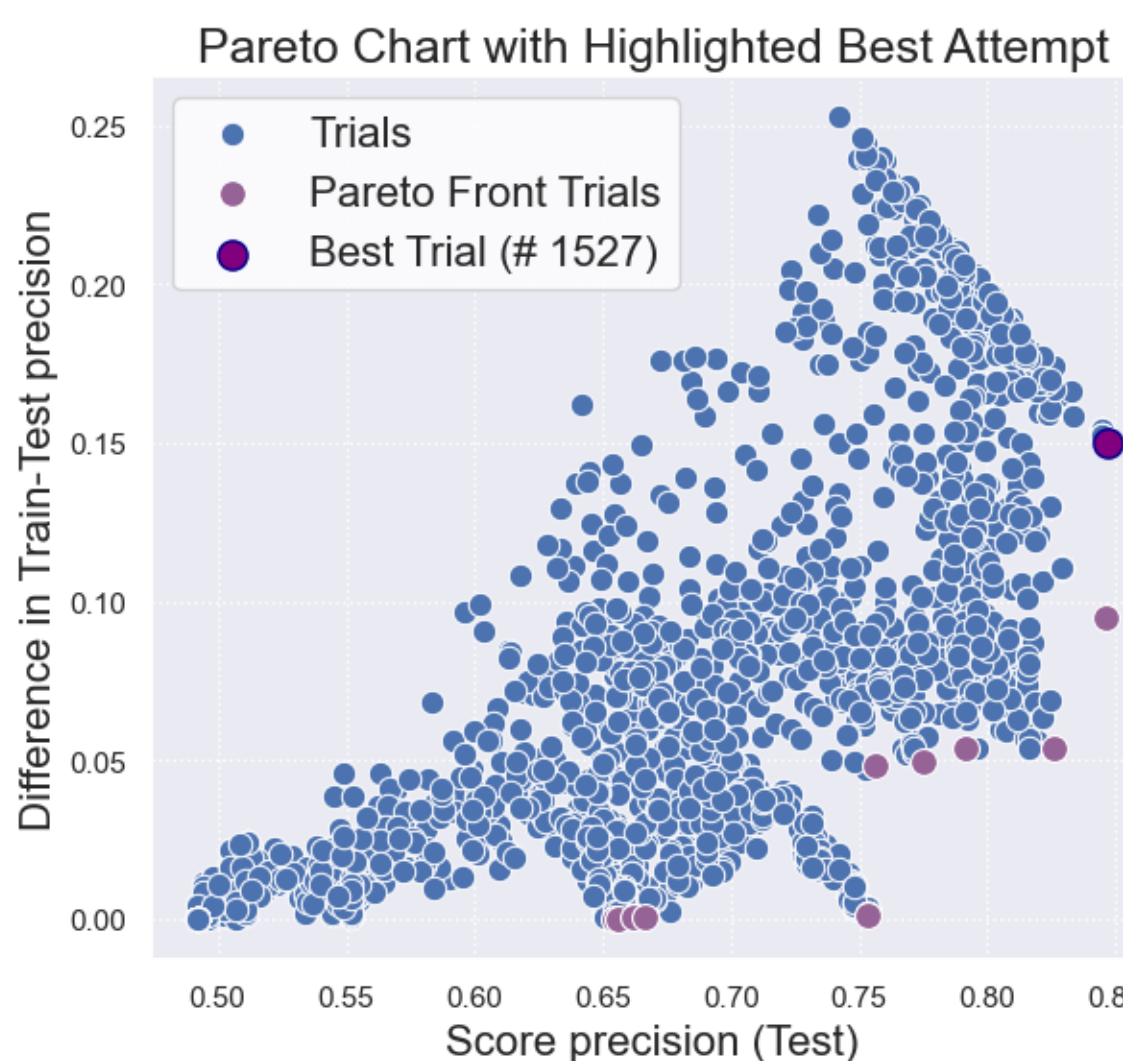
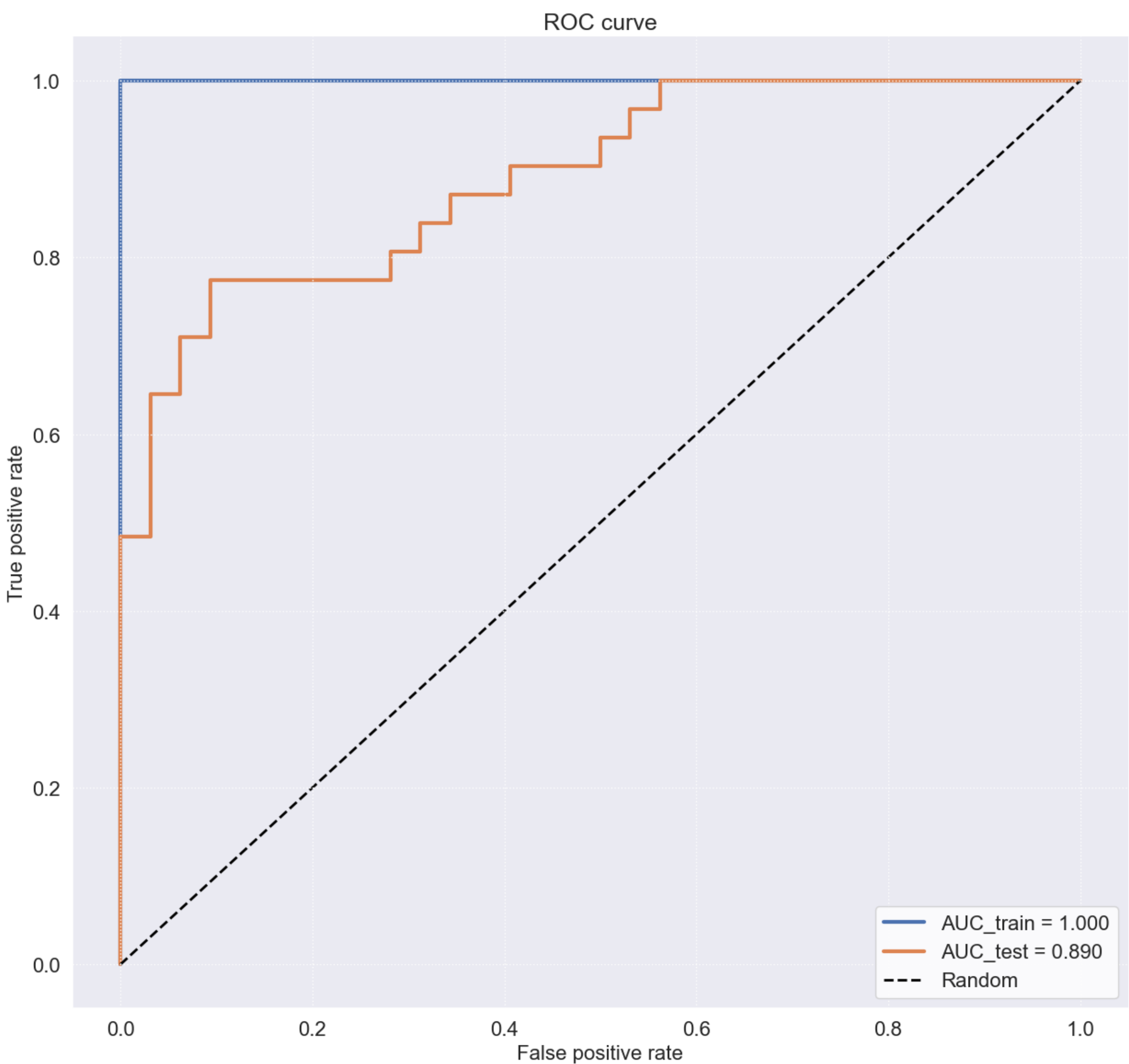
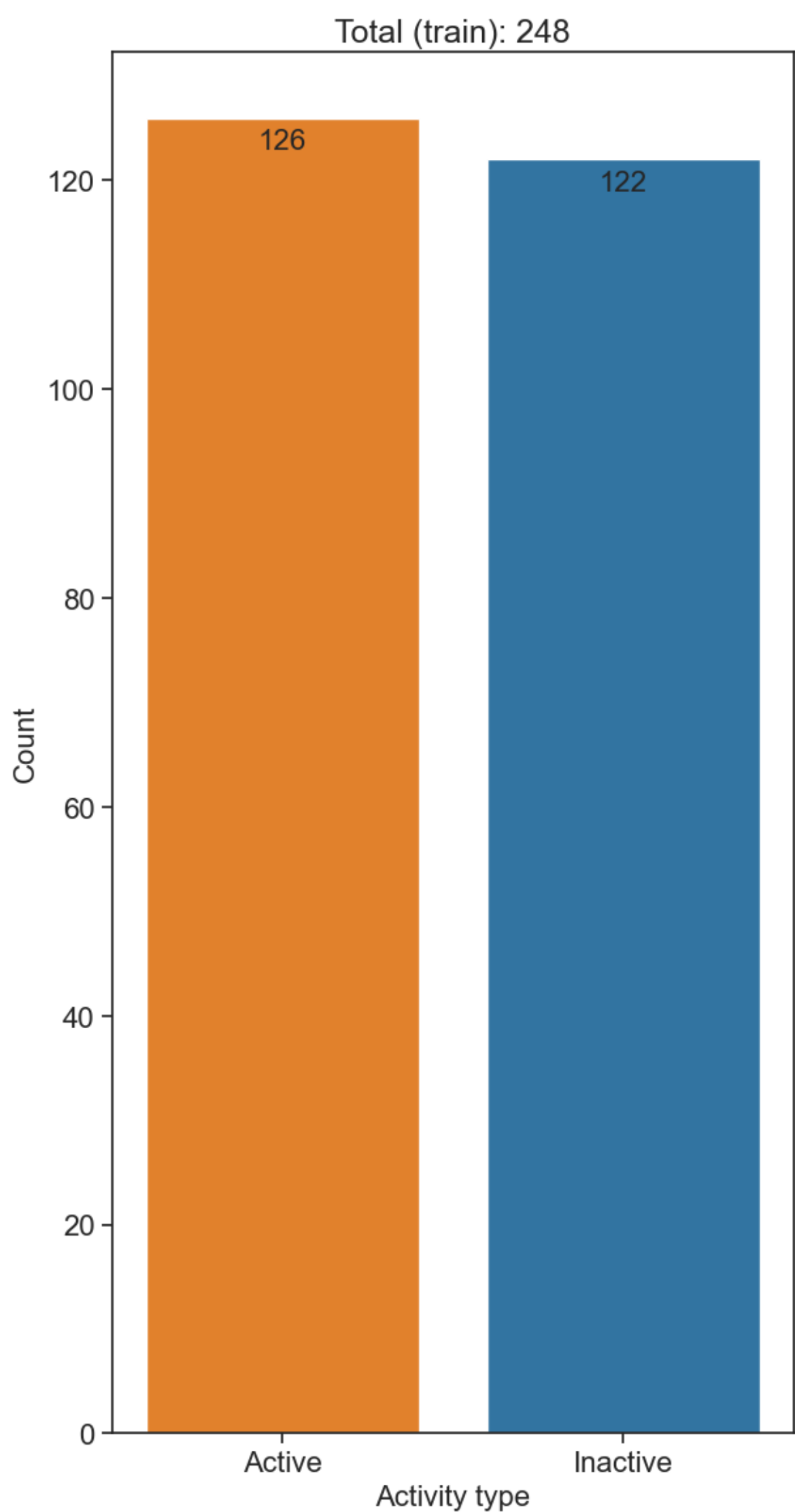


XGBoost Parameters	Value
alpha	1.0074
colsample_bytree	0.764
gamma	0.8195
lambda	2.0729
learning_rate	0.2699
max_depth	5.0
min_child_weight	1.0
n_estimators	749.0
reg_alpha	0.4758
reg_lambda	0.535
scale_pos_weight	83.9567
subsample	0.9539

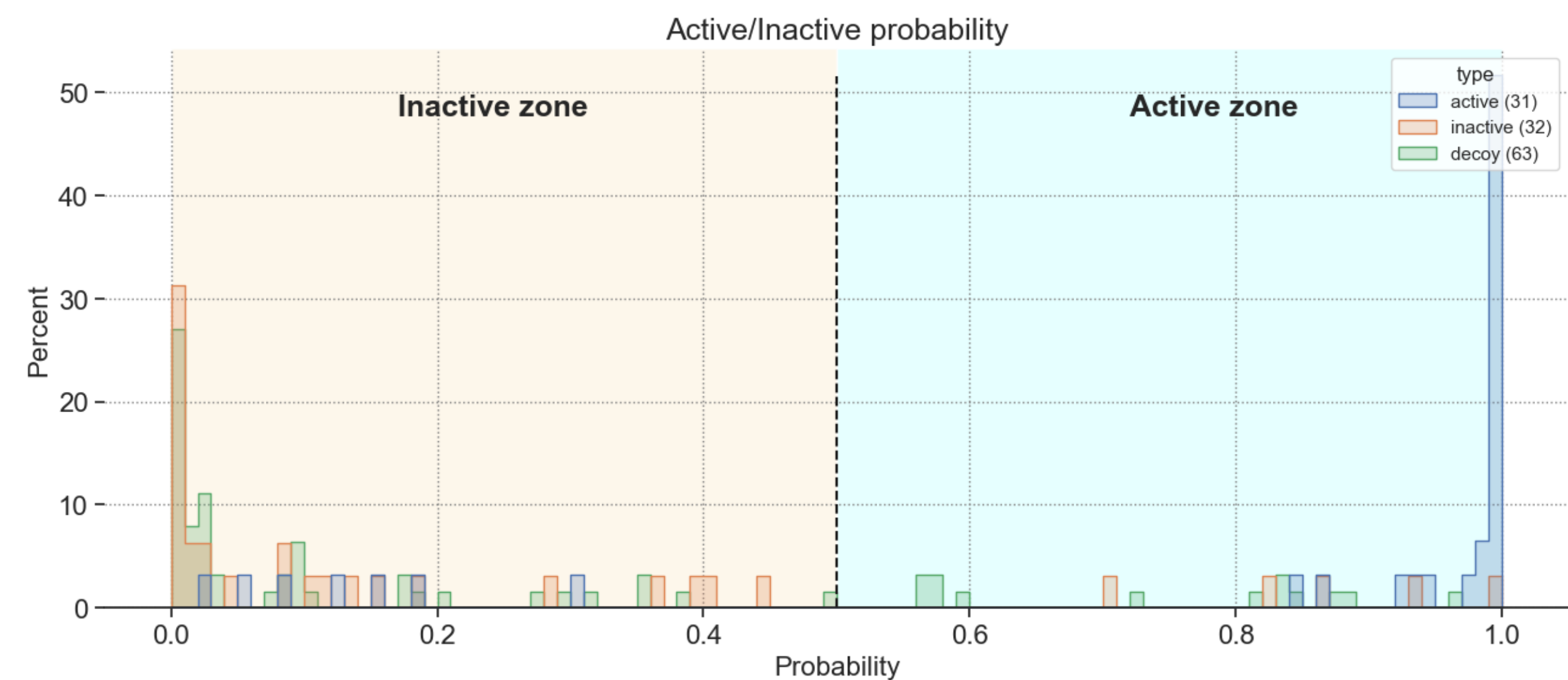
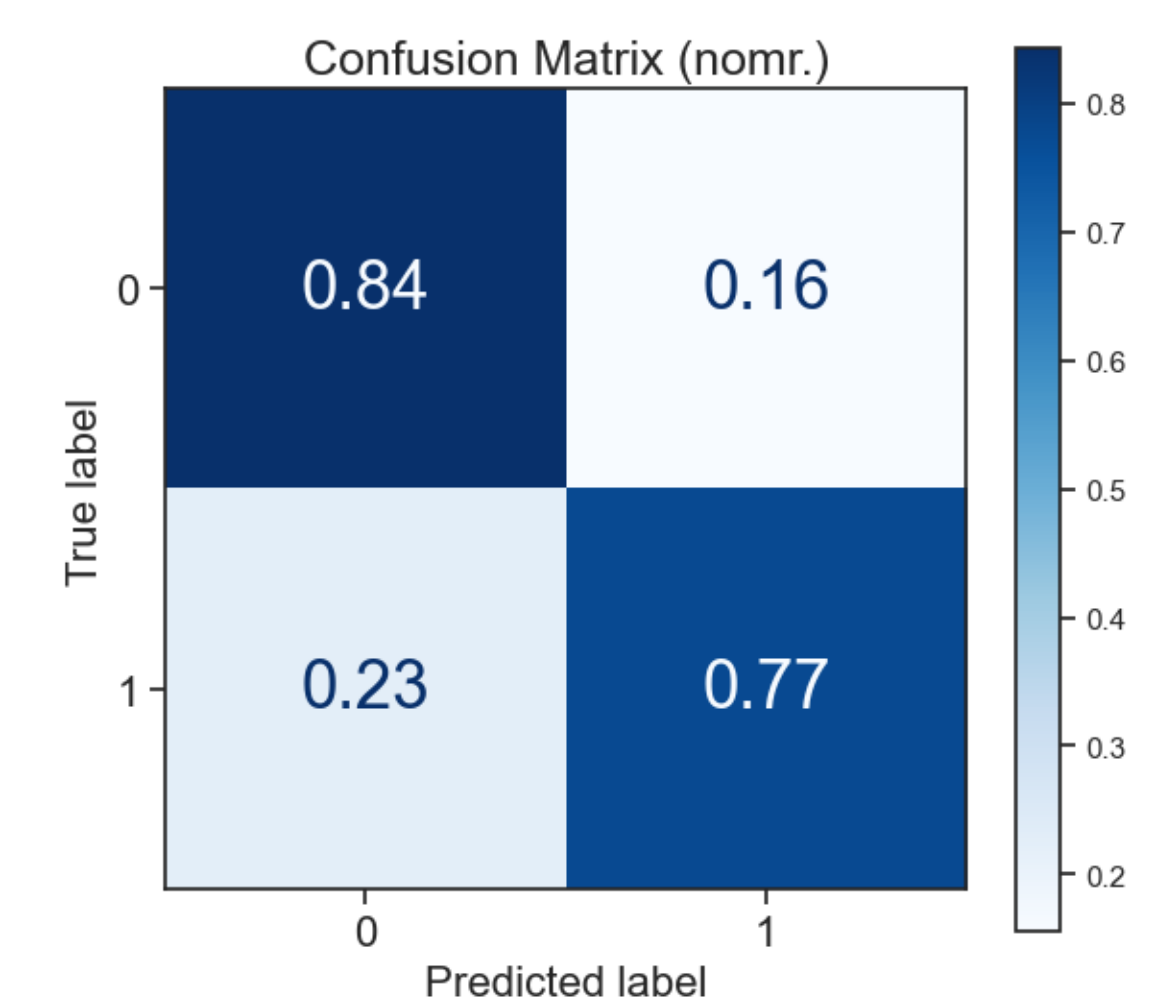
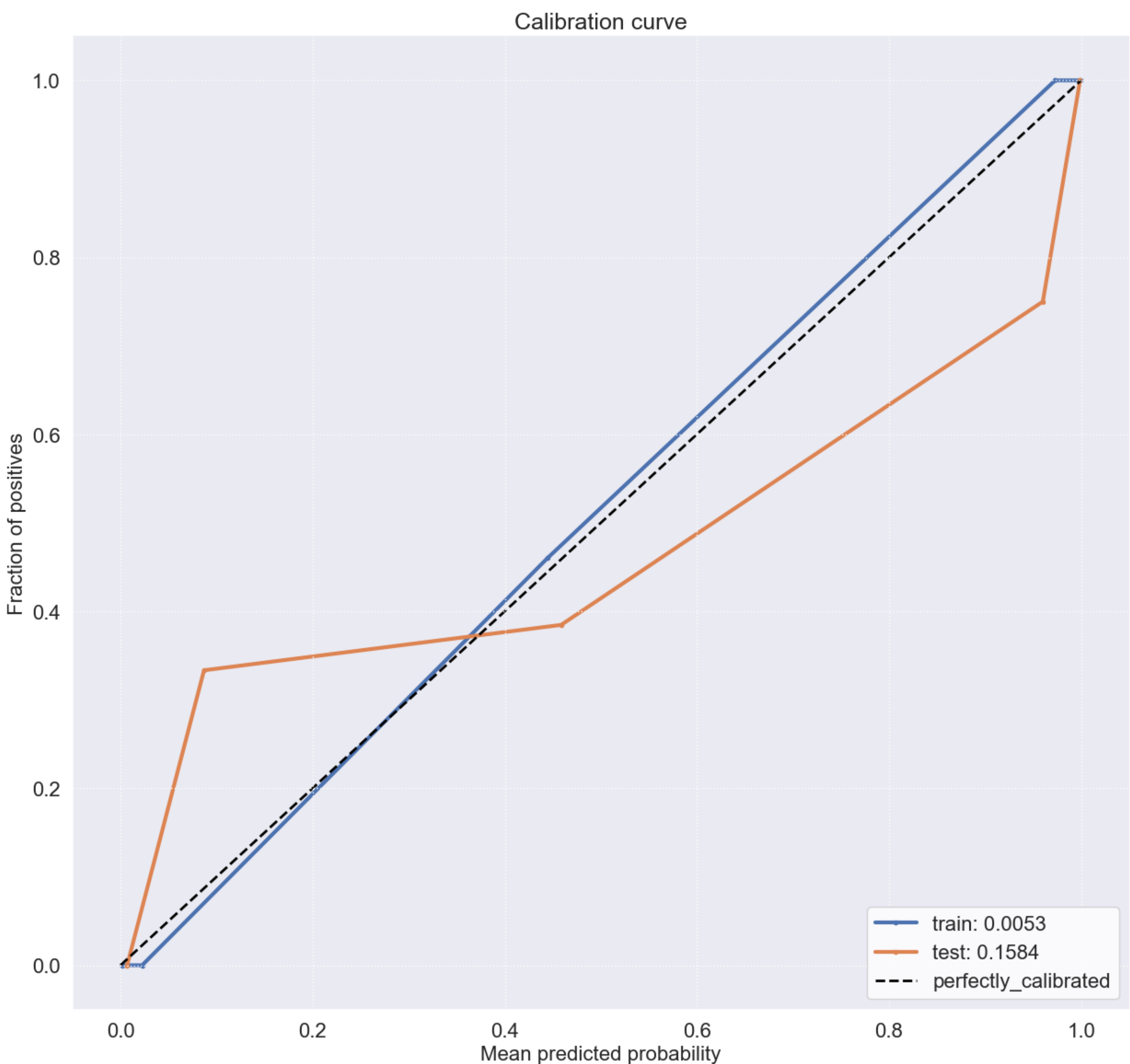
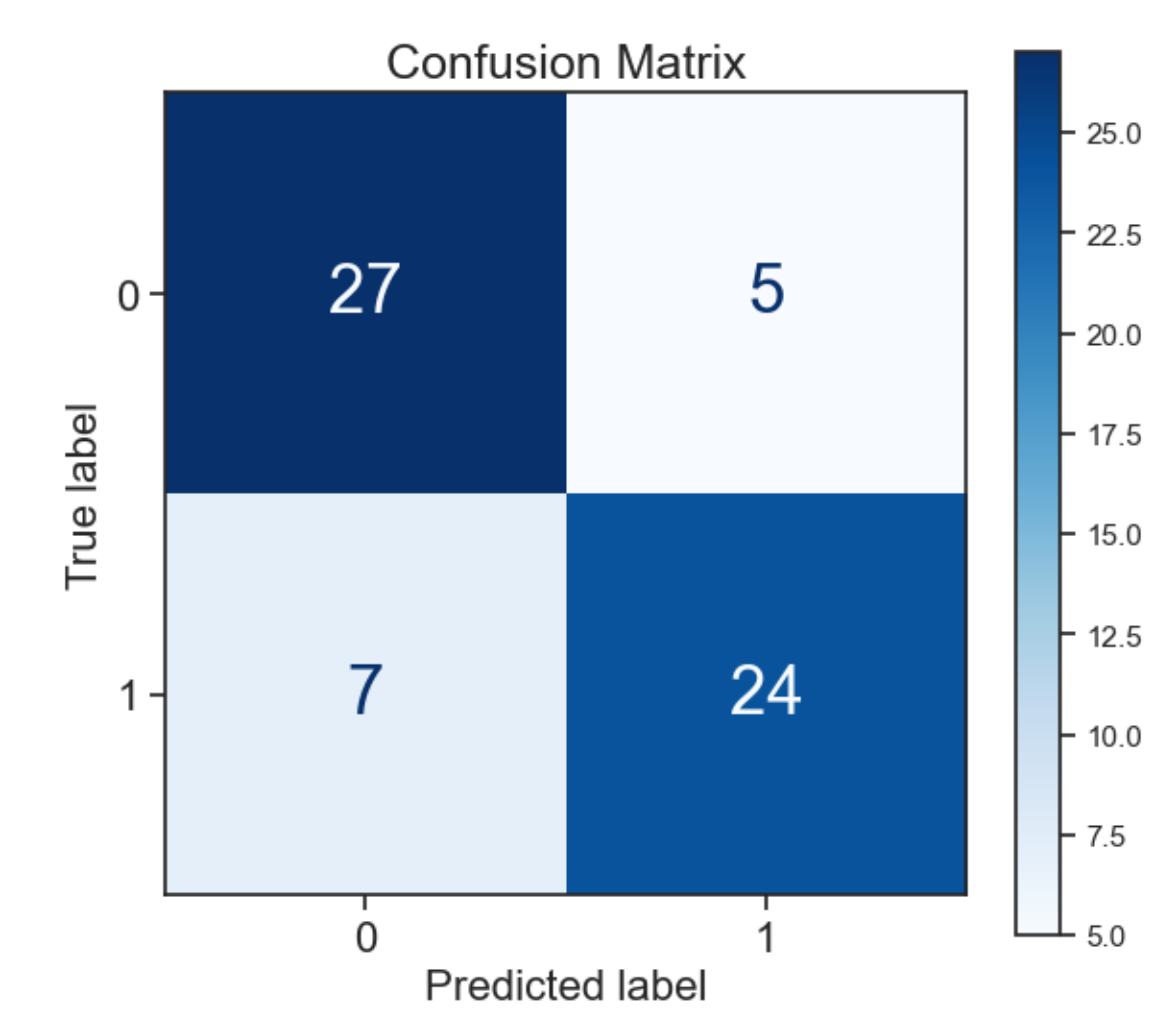


Metric	Train	Test
AUC	1.0	0.8871
accuracy	0.9516	0.7778
balanced accuracy	0.9524	0.7807
recall_(sens)	1.0	0.9677
specificity	0.9048	0.5938
precision	0.9104	0.6977
f1_score	0.9515	0.7702

Protein: P18089 - metric: precision

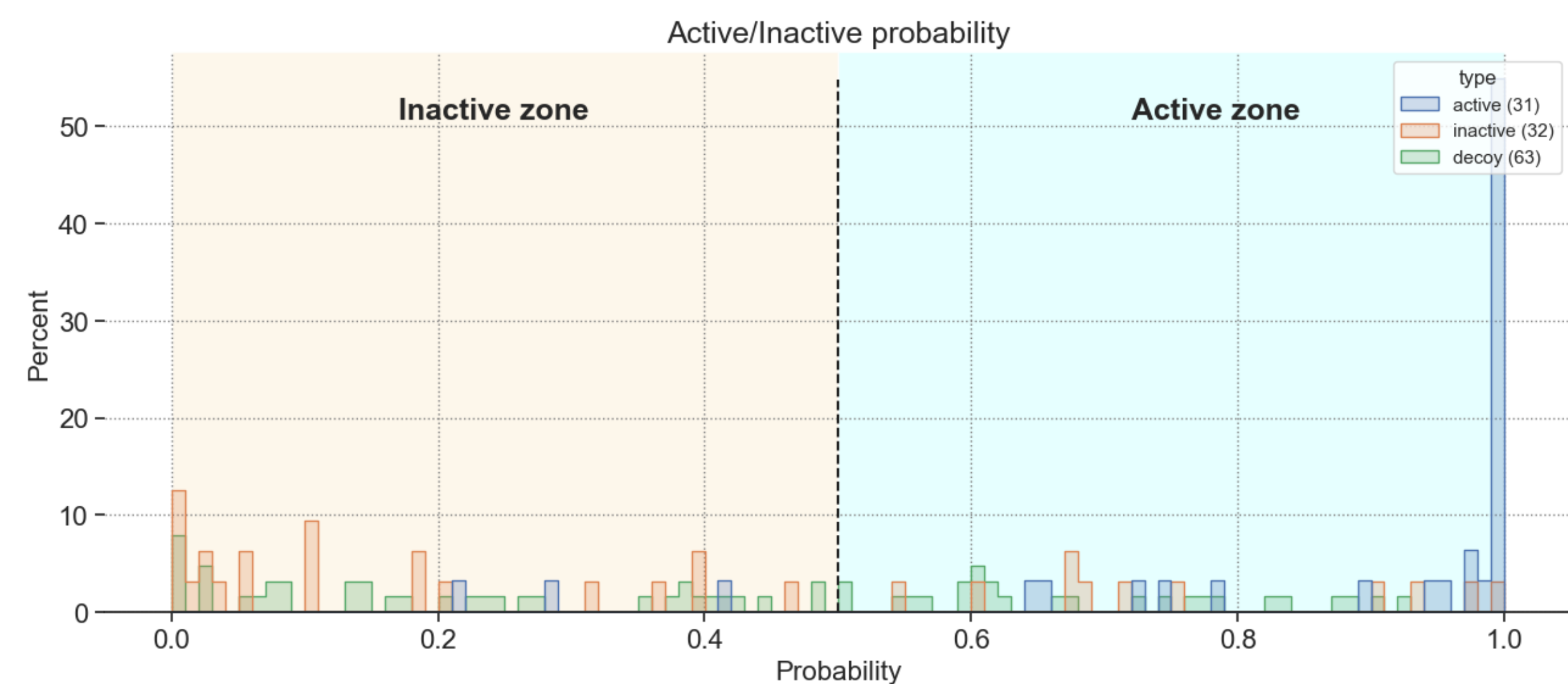
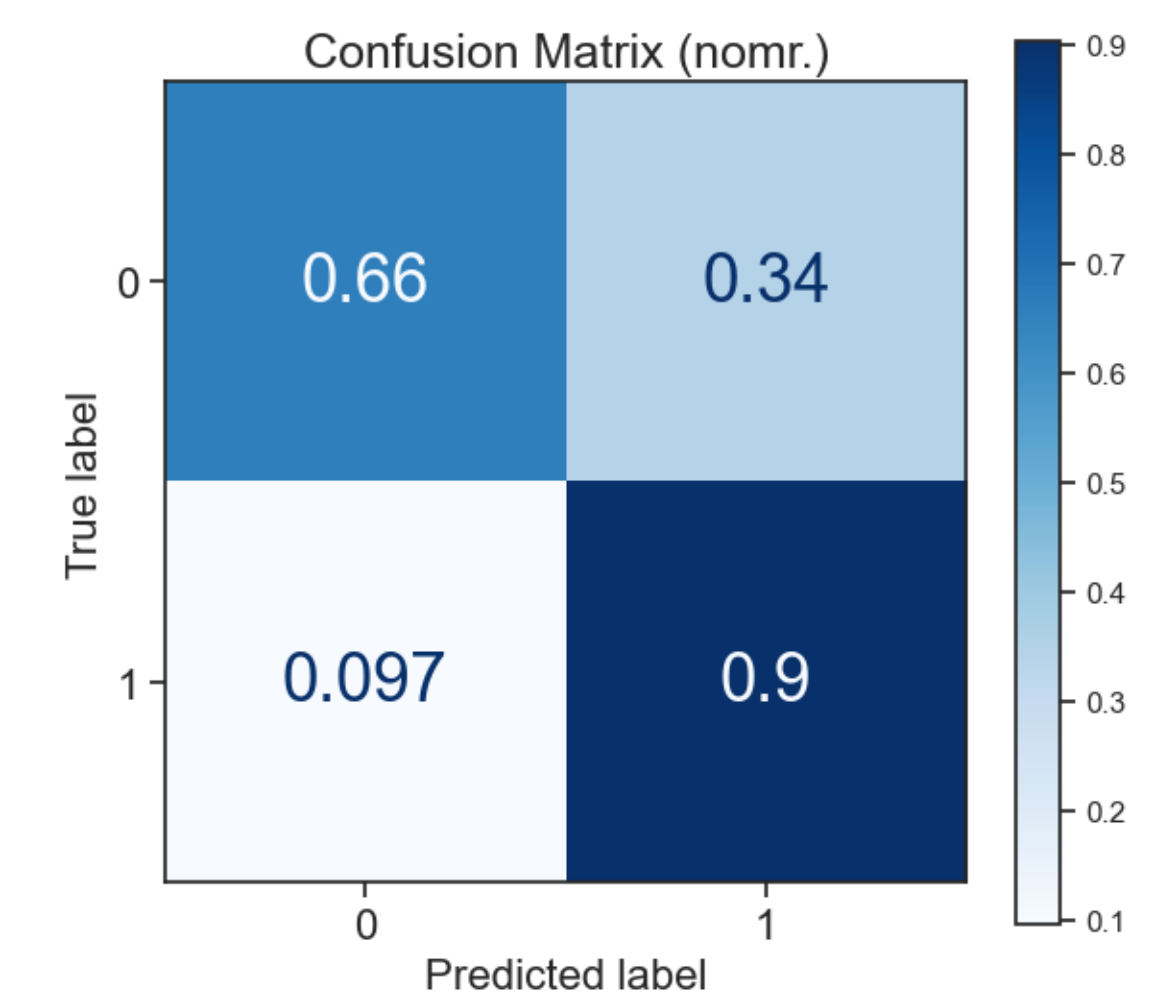
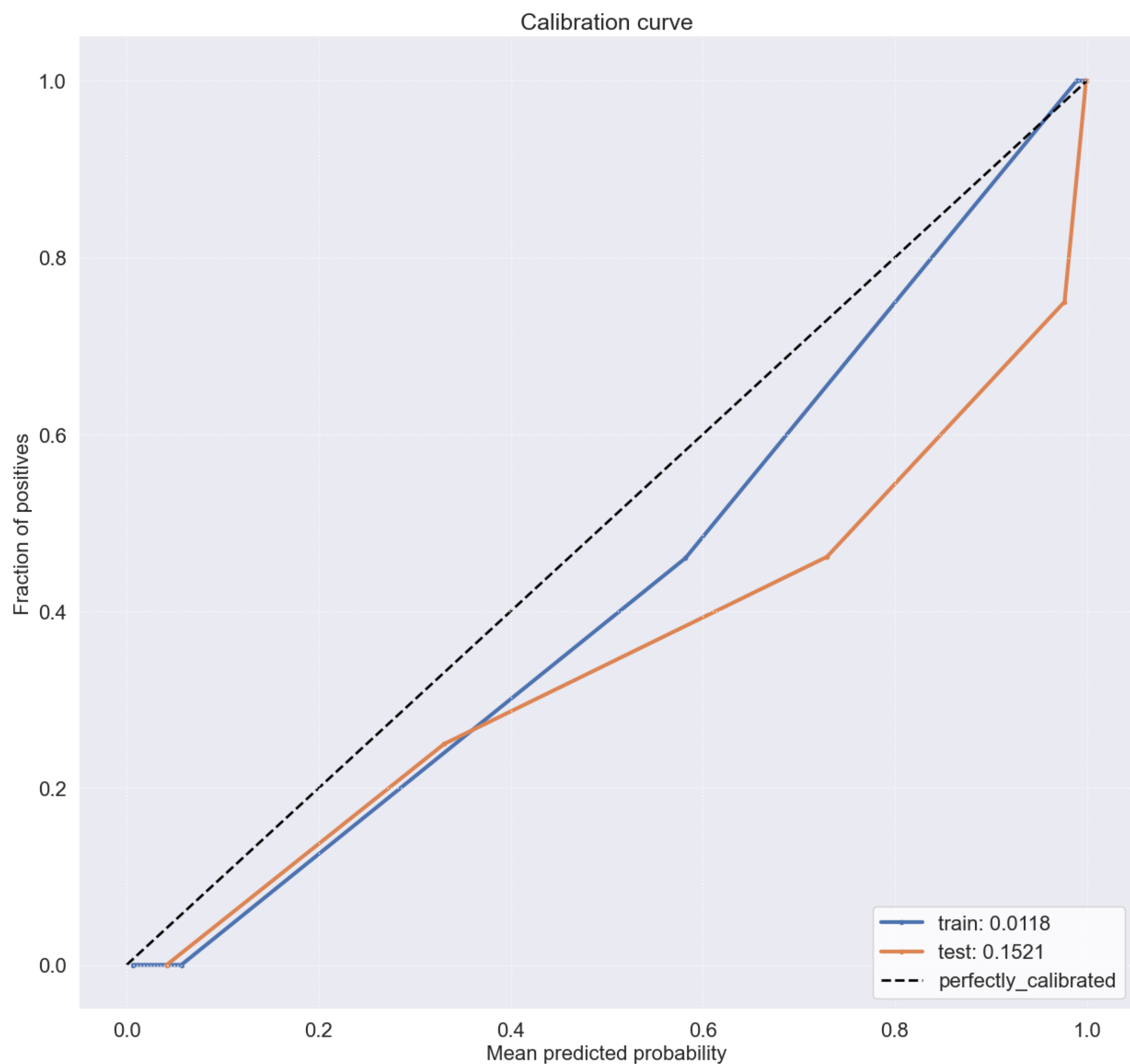
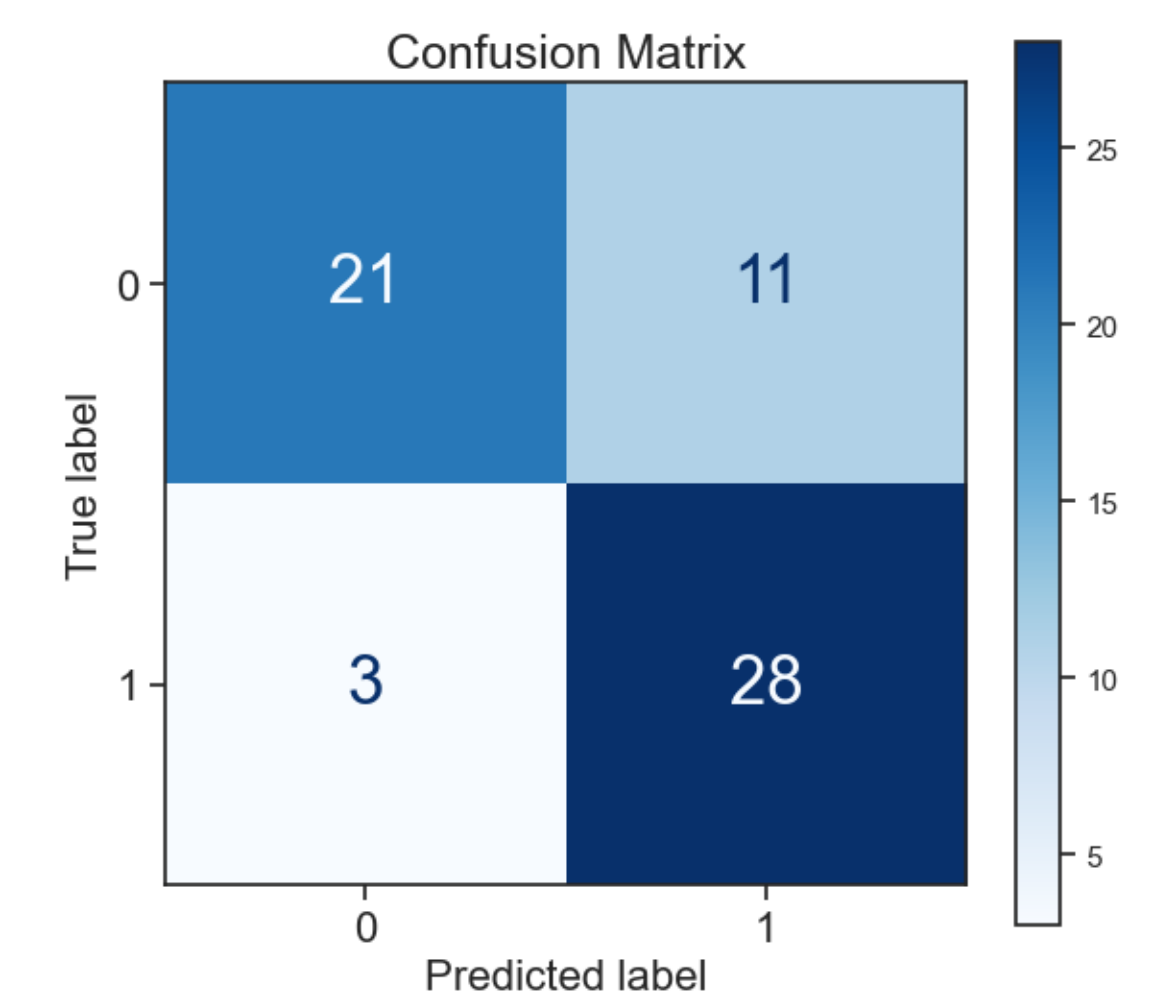
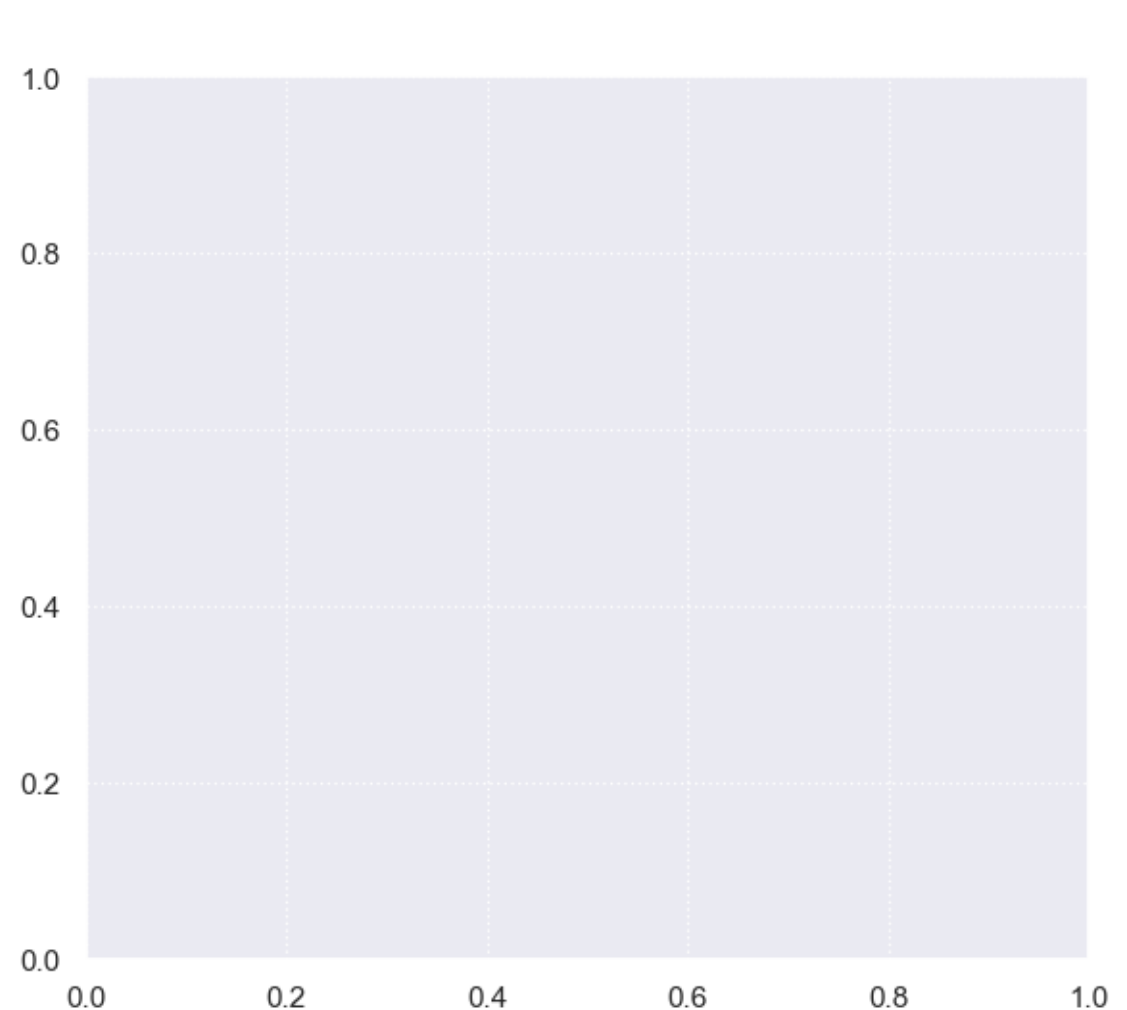
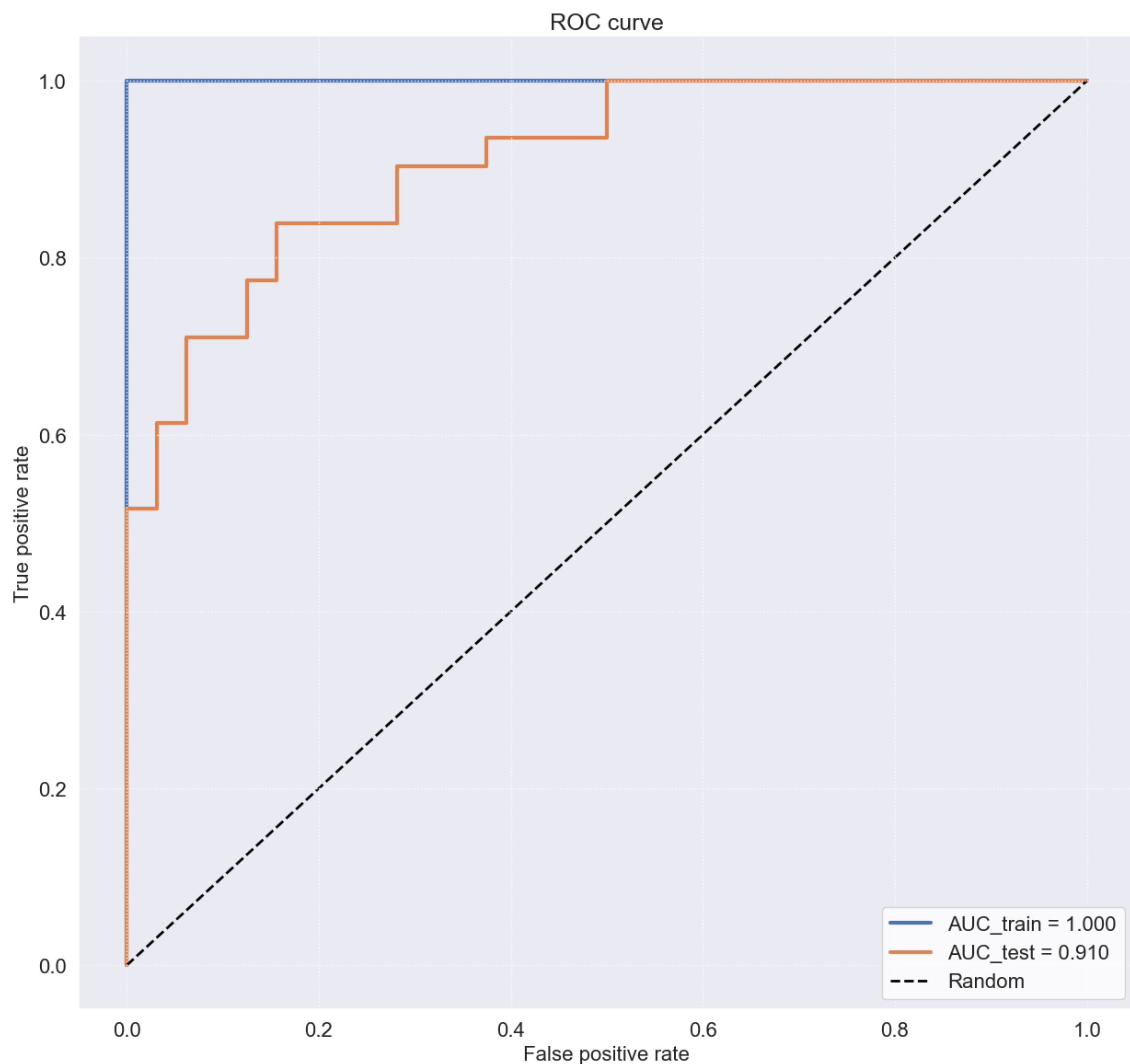
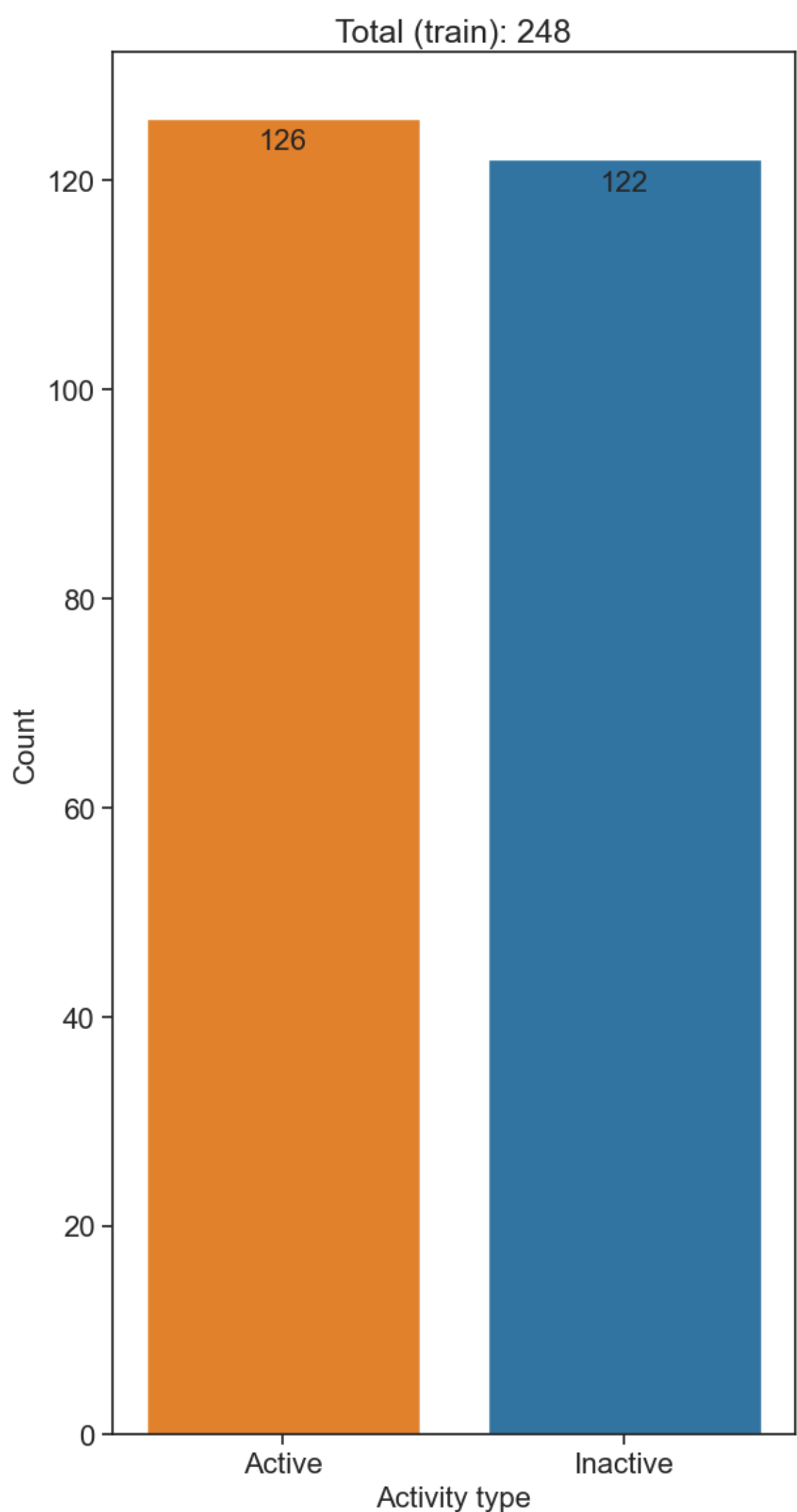


XGBoost Parameters	Value
alpha	1.9281
colsample_bytree	0.9754
gamma	0.2974
lambda	3.3889
learning_rate	0.961
max_depth	8.0
min_child_weight	1.0
n_estimators	452.0
reg_alpha	0.1586
reg_lambda	0.9857
scale_pos_weight	1.2279
subsample	0.5049



Metric	Train	Test
AUC	1.0	0.8901
accuracy	1.0	0.8095
balanced accuracy	1.0	0.809
recall_(sens)	1.0	0.7742
specificity	1.0	0.8438
precision	1.0	0.8276
f1_score	1.0	0.8092

Protein: P18089 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	1.0	0.9103
accuracy	0.9919	0.7778
balanced accuracy	0.9921	0.7797
recall_(sens)	1.0	0.9032
specificity	0.9841	0.6562
precision	0.9839	0.7179
f1_score	0.9919	0.7746