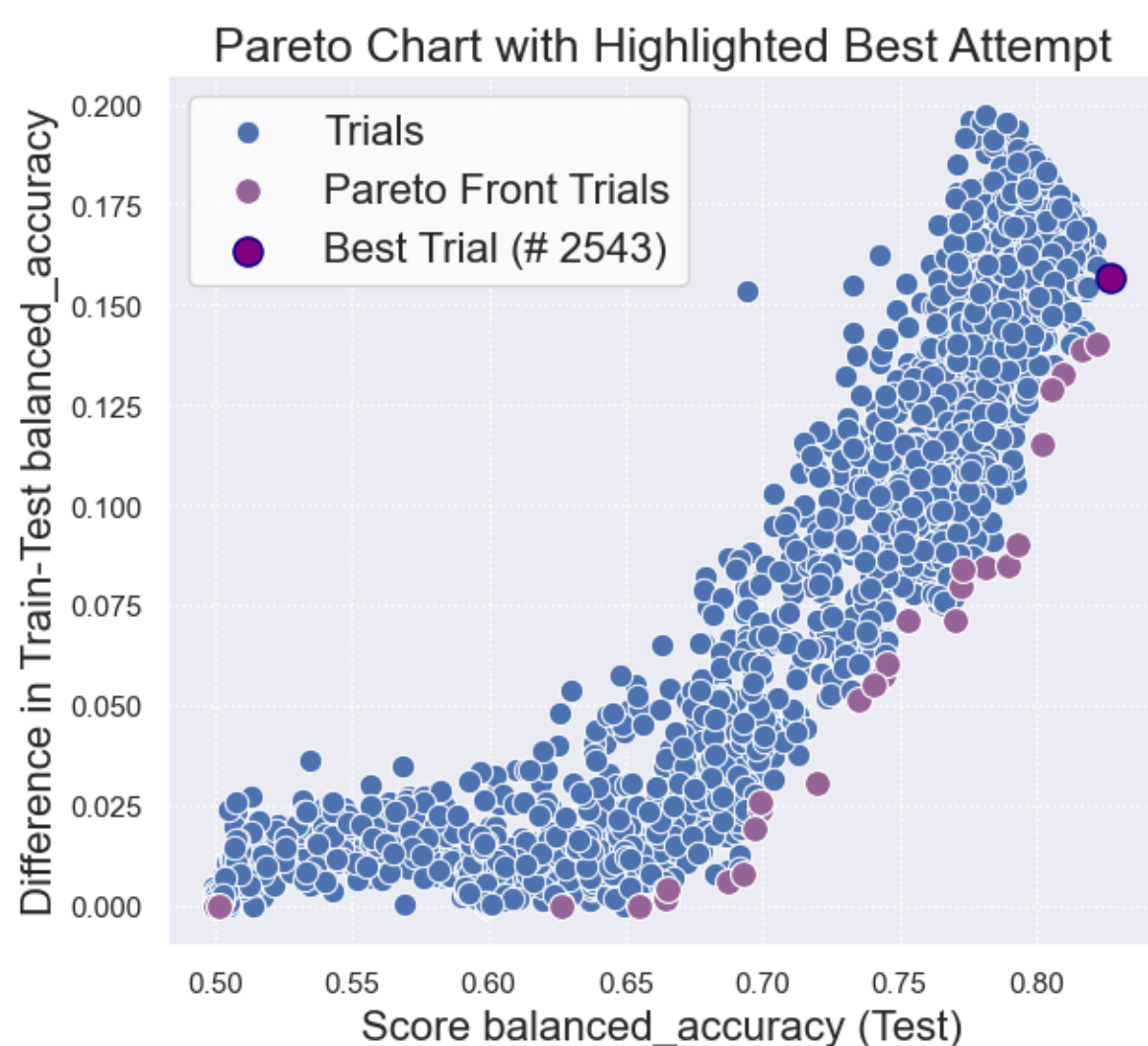
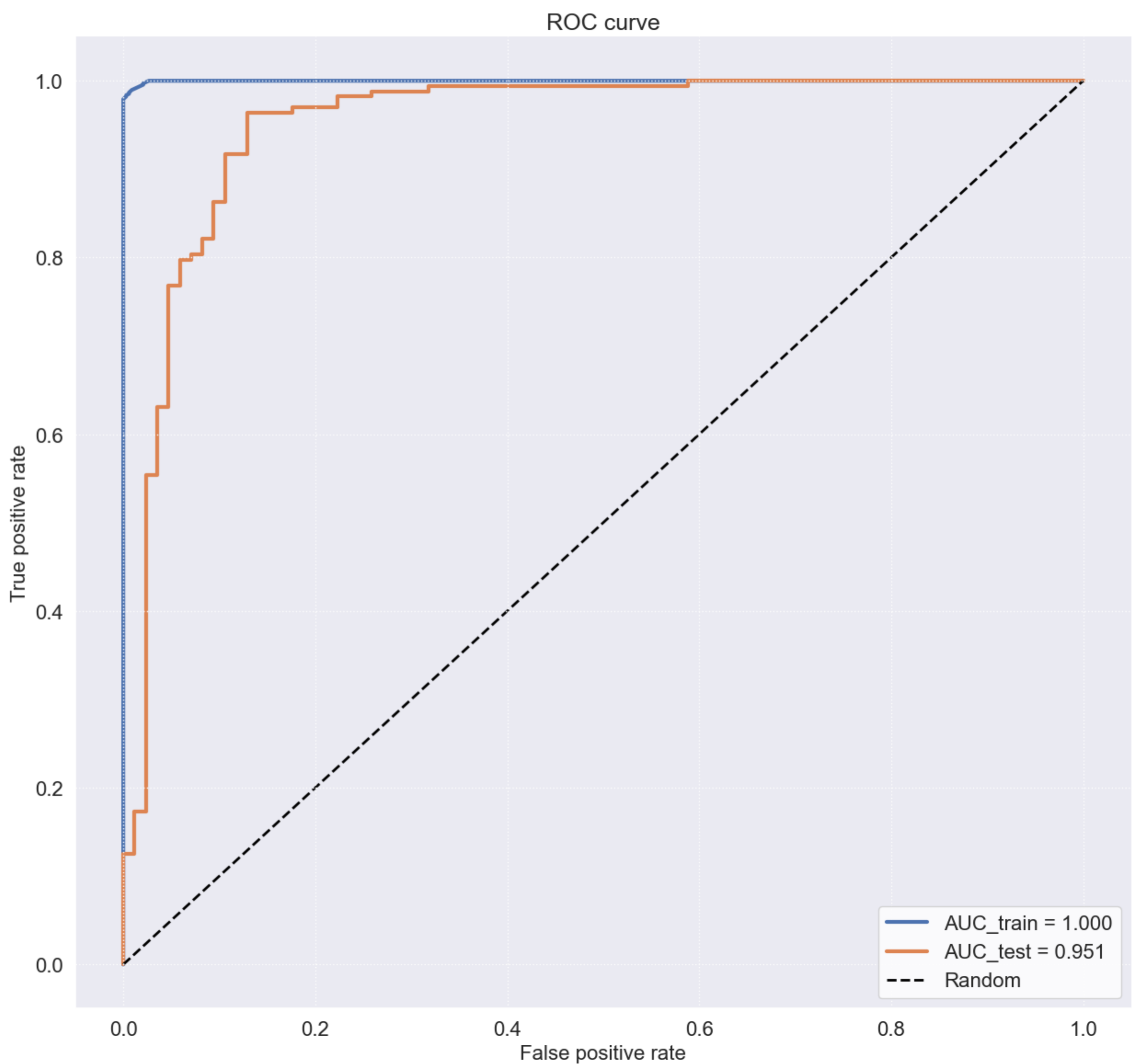
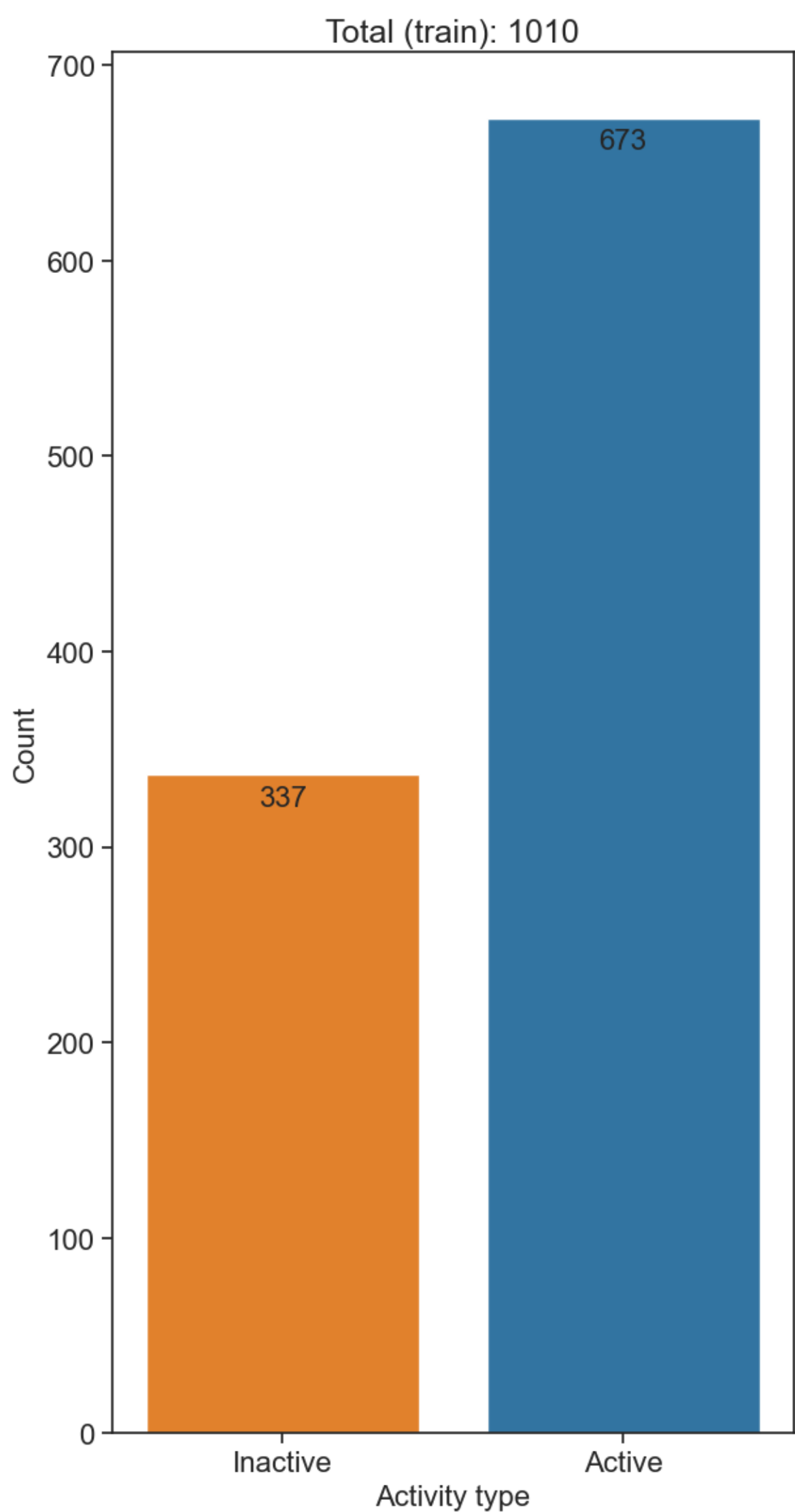
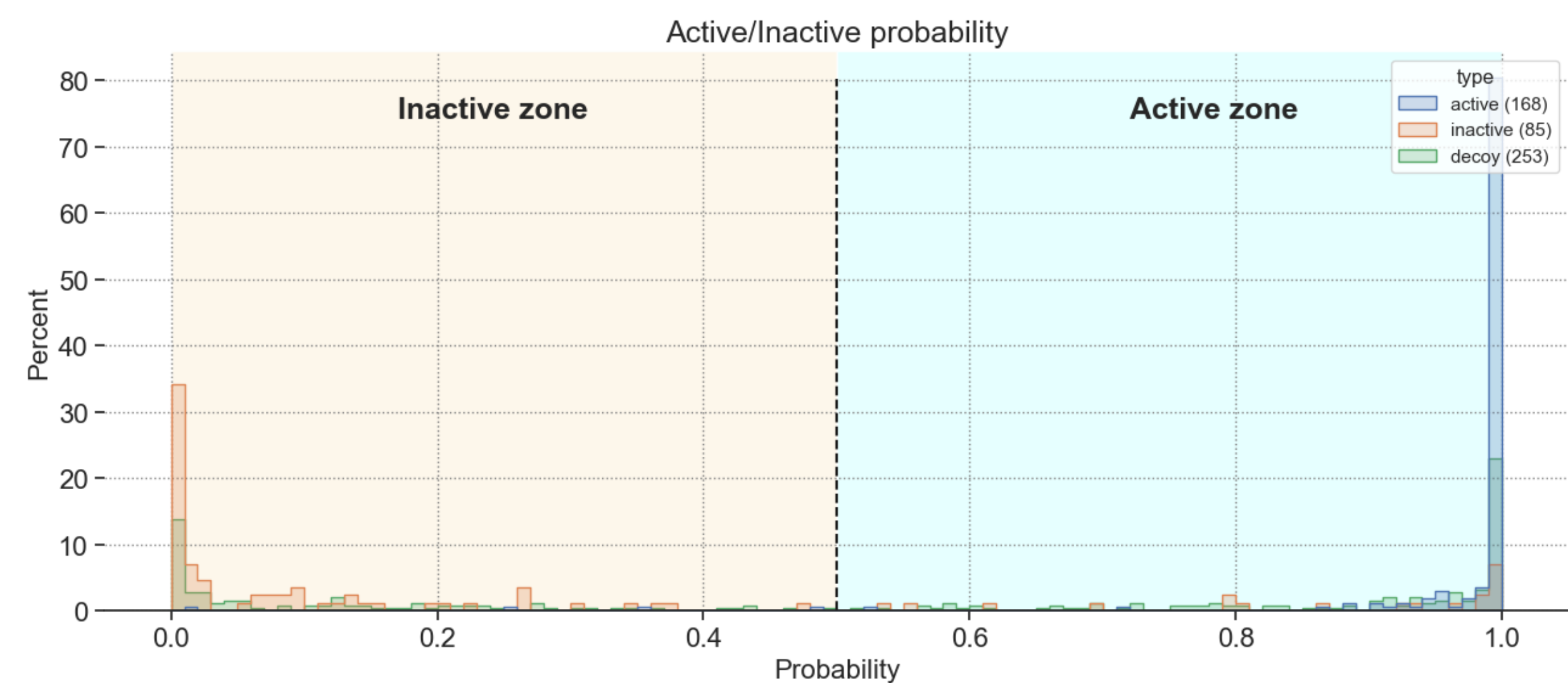
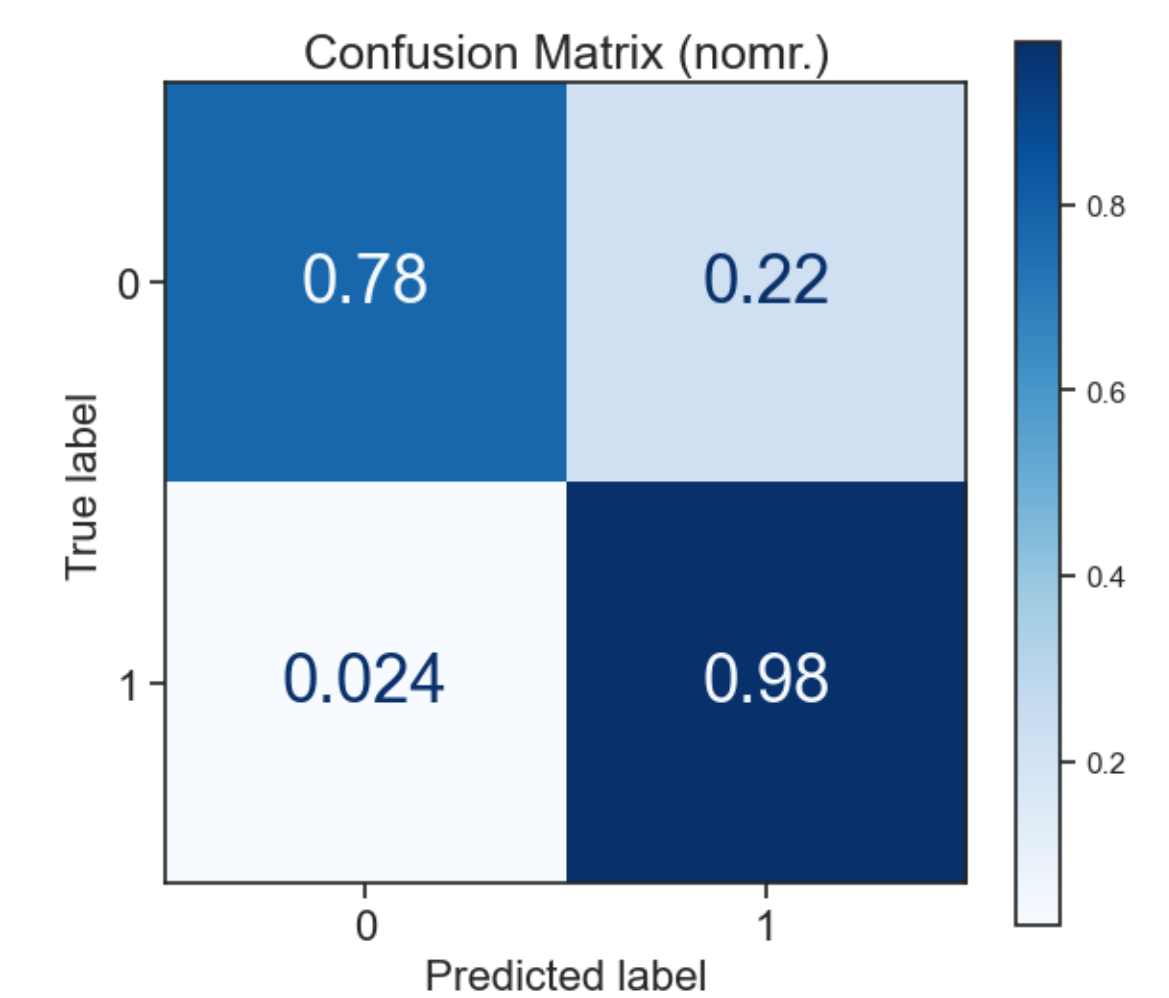
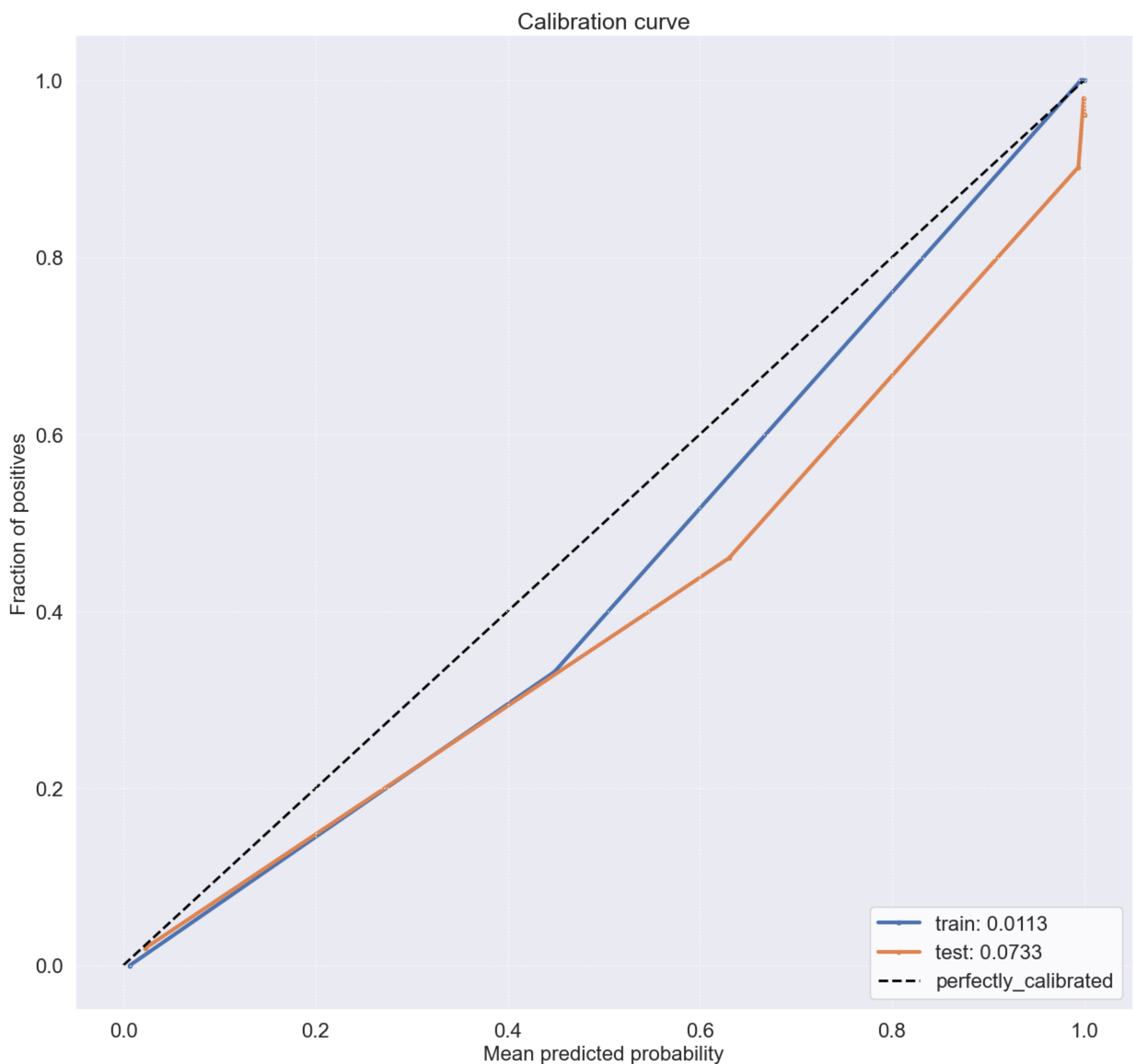
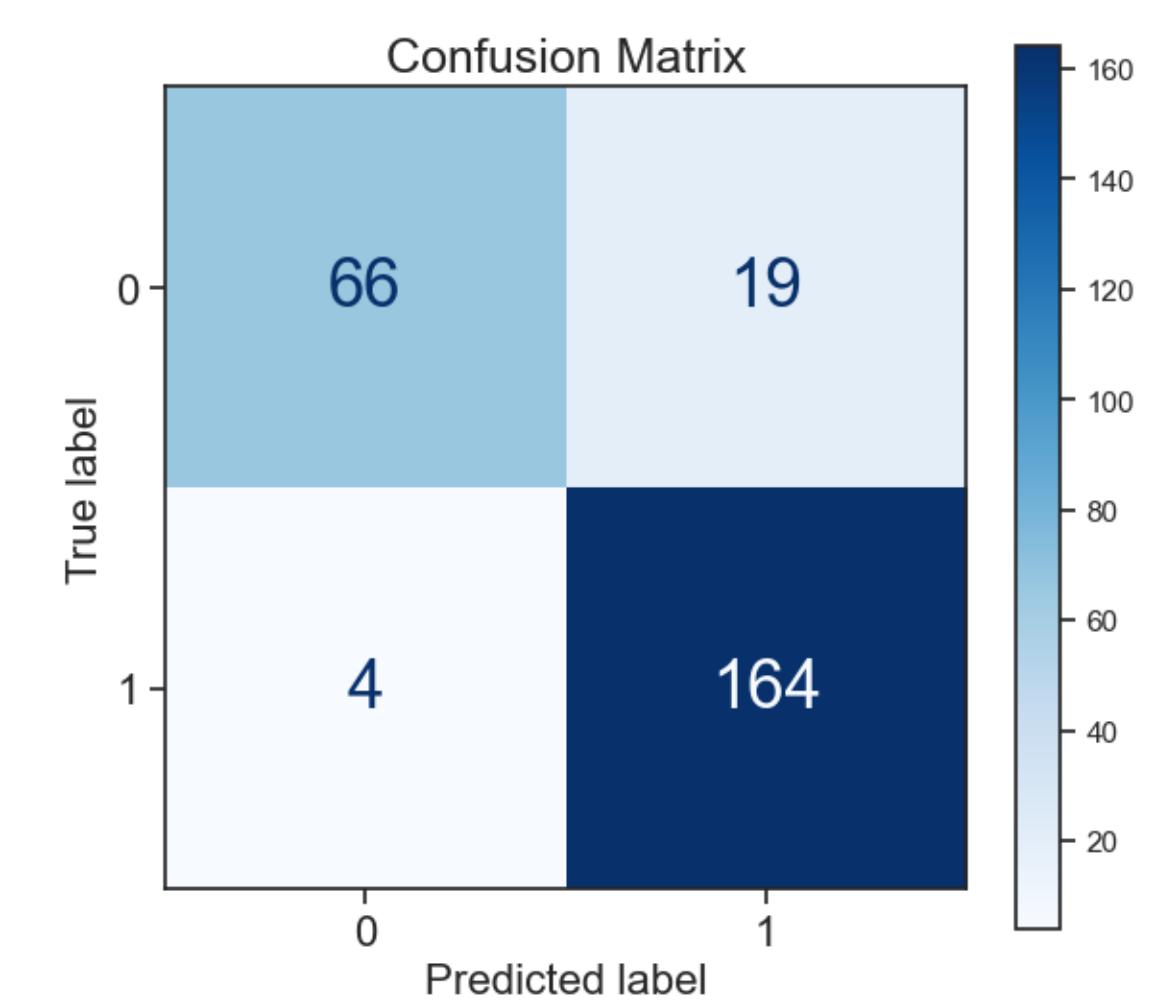


Protein: O00519 - metric: balanced_accuracy

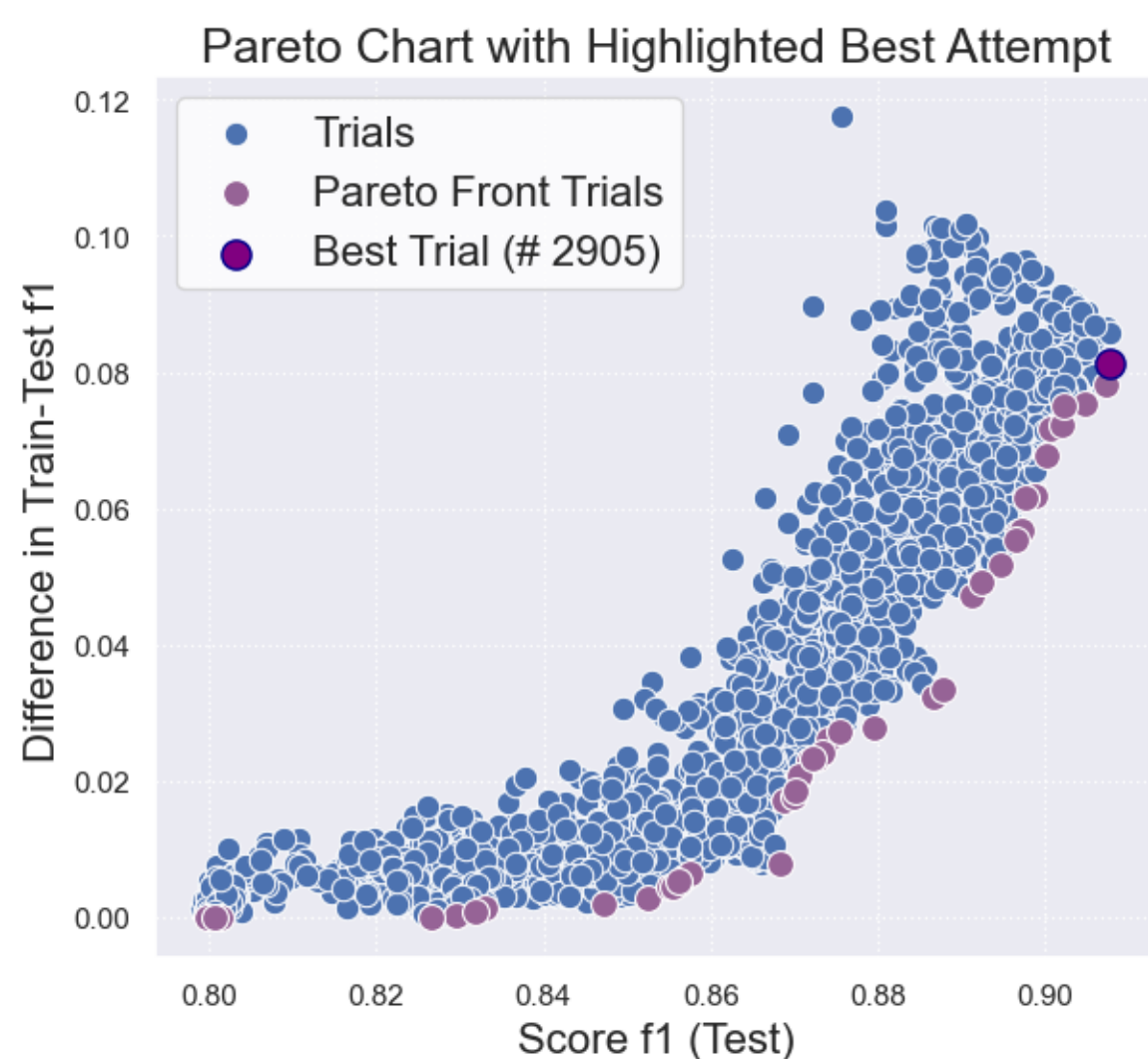
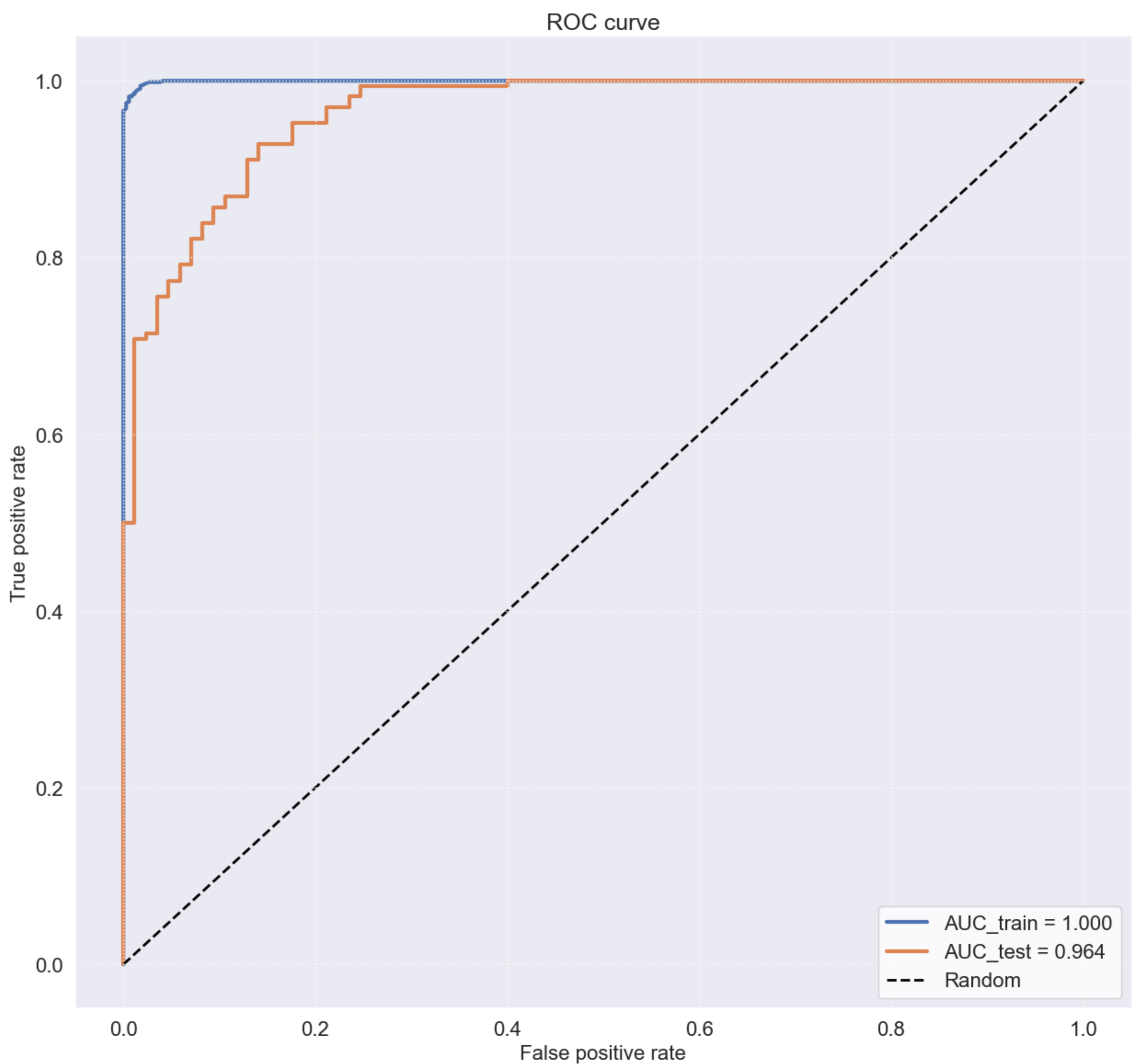
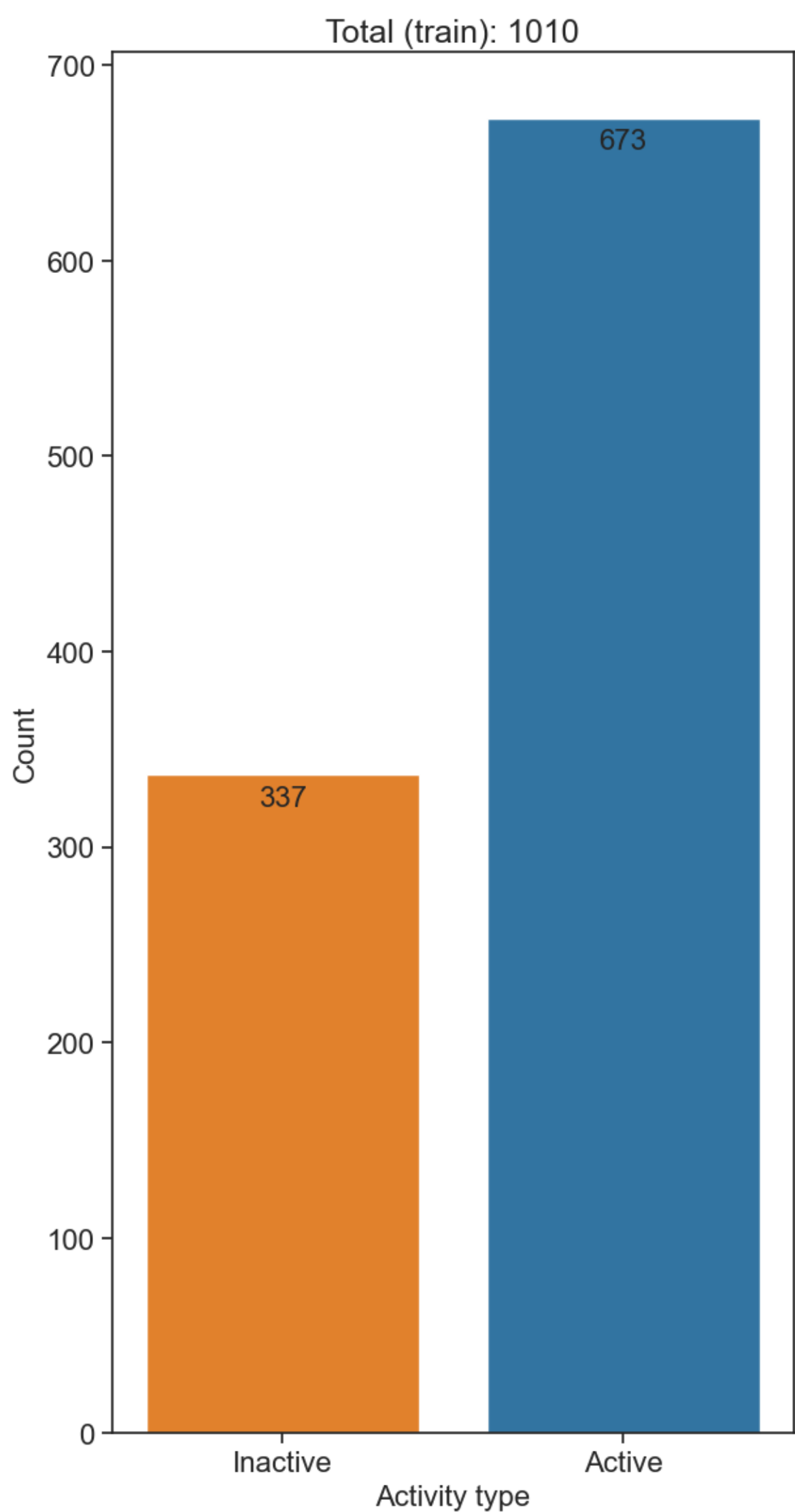


XGBoost Parameters	Value
alpha	4.9439
colsample_bytree	0.8633
gamma	0.2471
lambda	3.1302
learning_rate	0.8504
max_depth	10.0
min_child_weight	1.0
n_estimators	129.0
reg_alpha	0.7933
reg_lambda	0.6883
scale_pos_weight	8.8991
subsample	0.8275

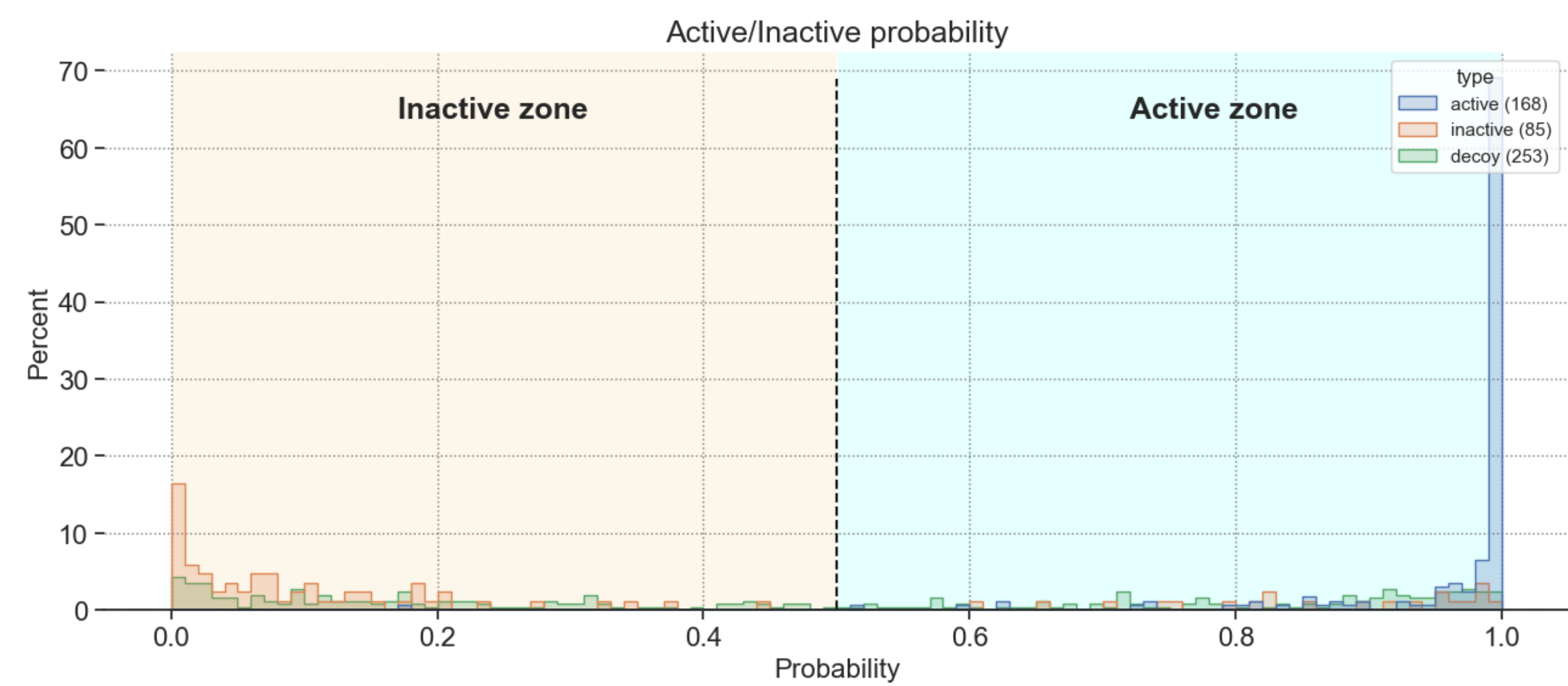
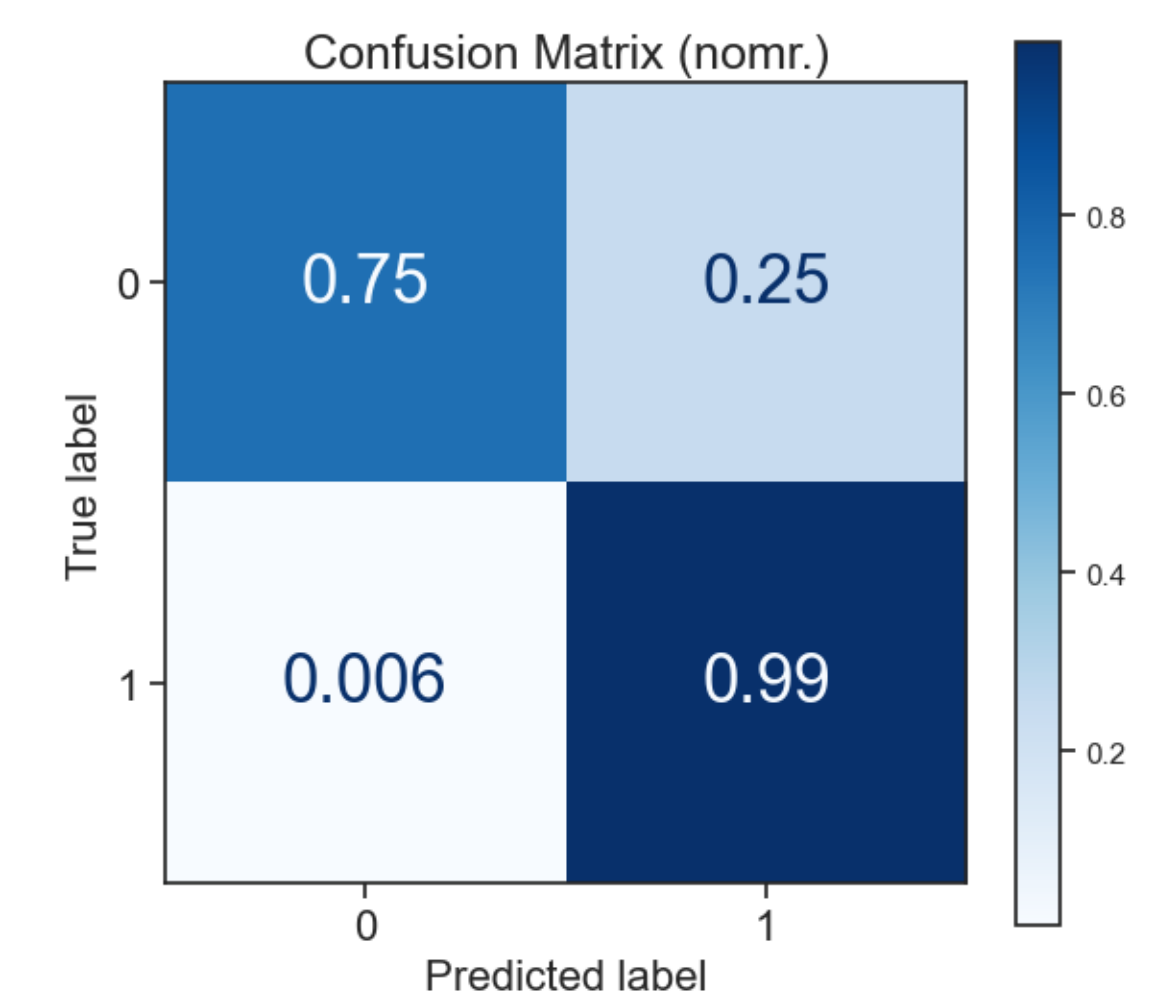
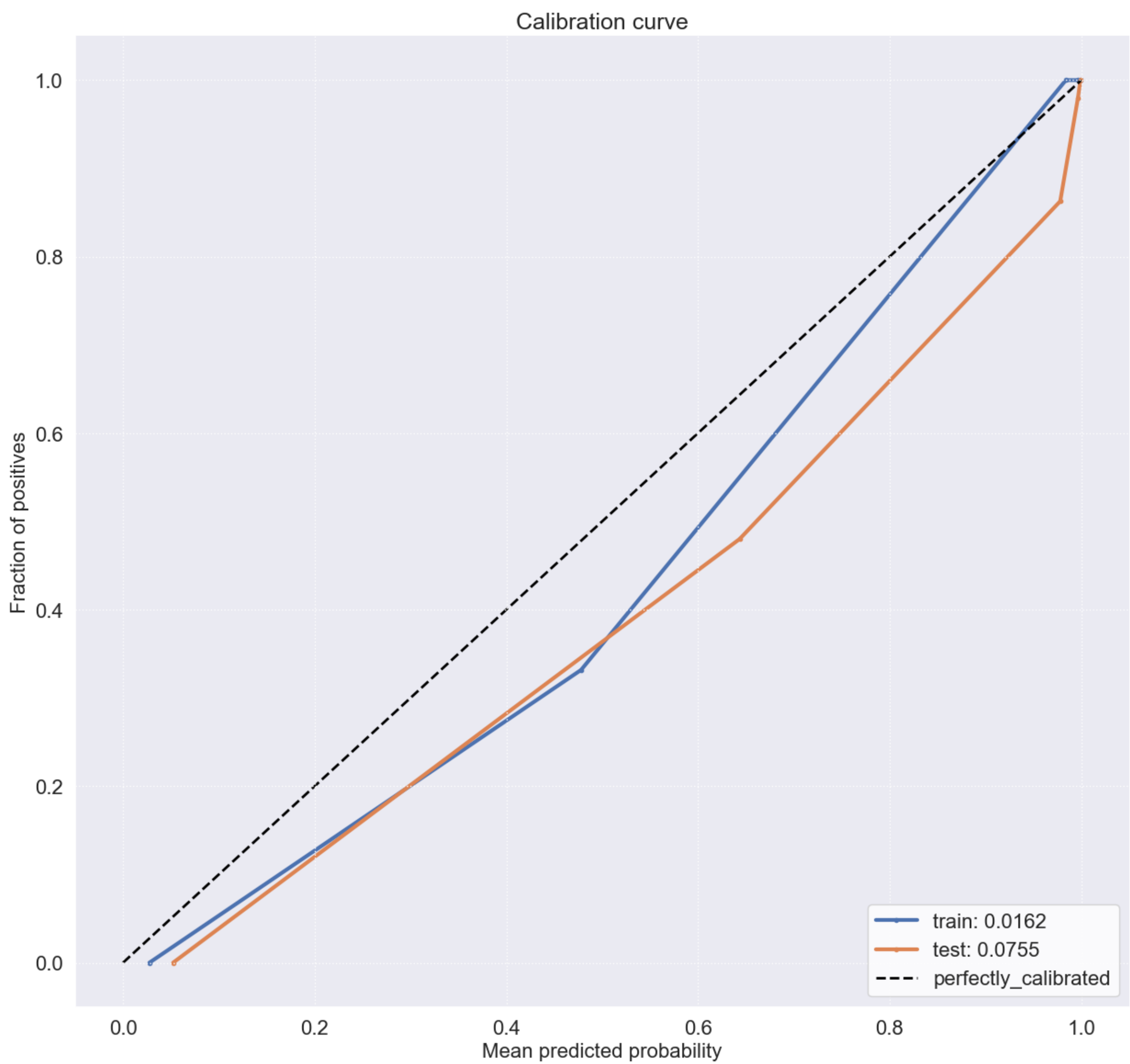
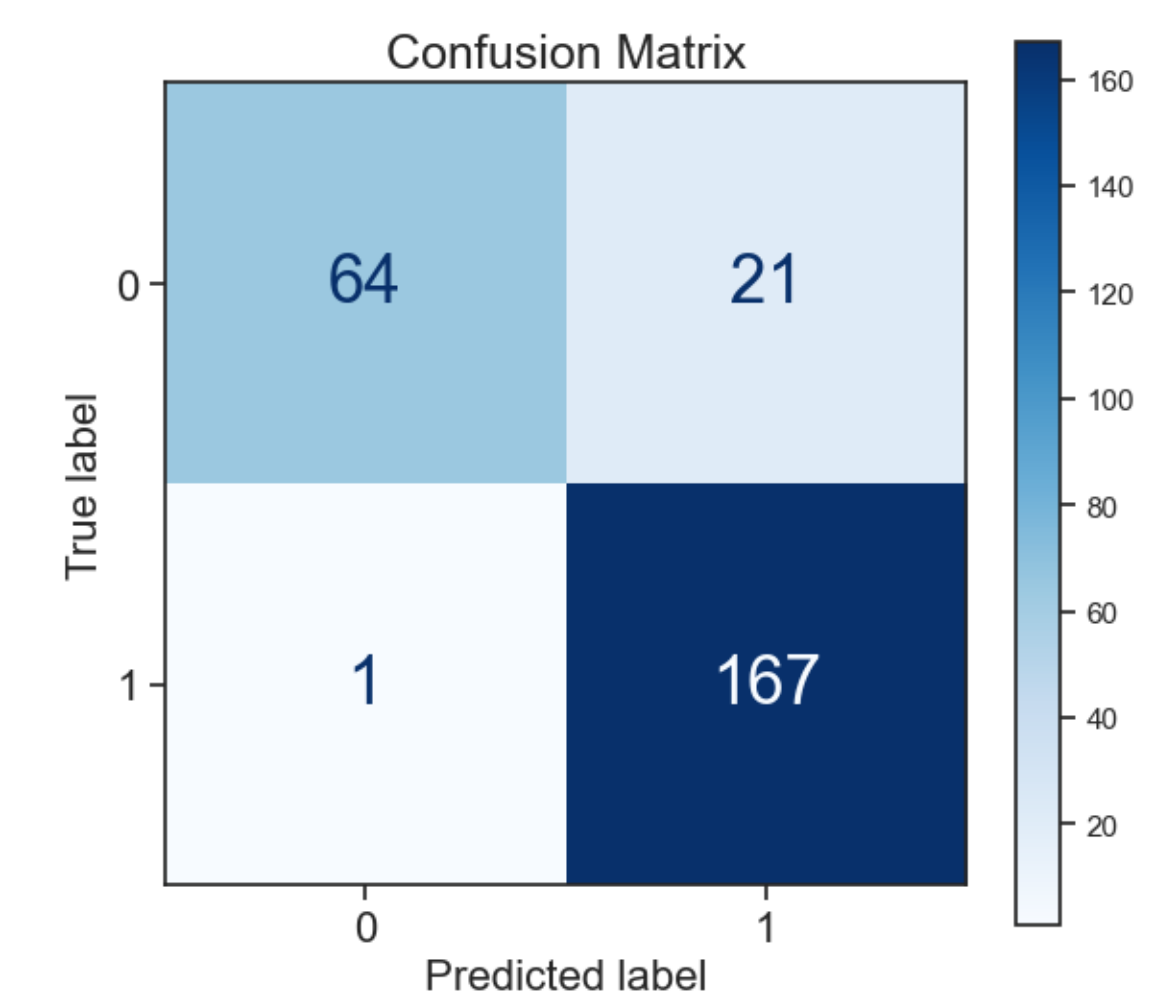


Metric	Train	Test
AUC	0.9998	0.9513
accuracy	0.9901	0.9091
balanced accuracy	0.9852	0.8763
recall_(sens)	1.0	0.9762
specificity	0.9703	0.7765
precision	0.9854	0.8962
f1_score	0.9901	0.9066

Protein: O00519 - metric: f1

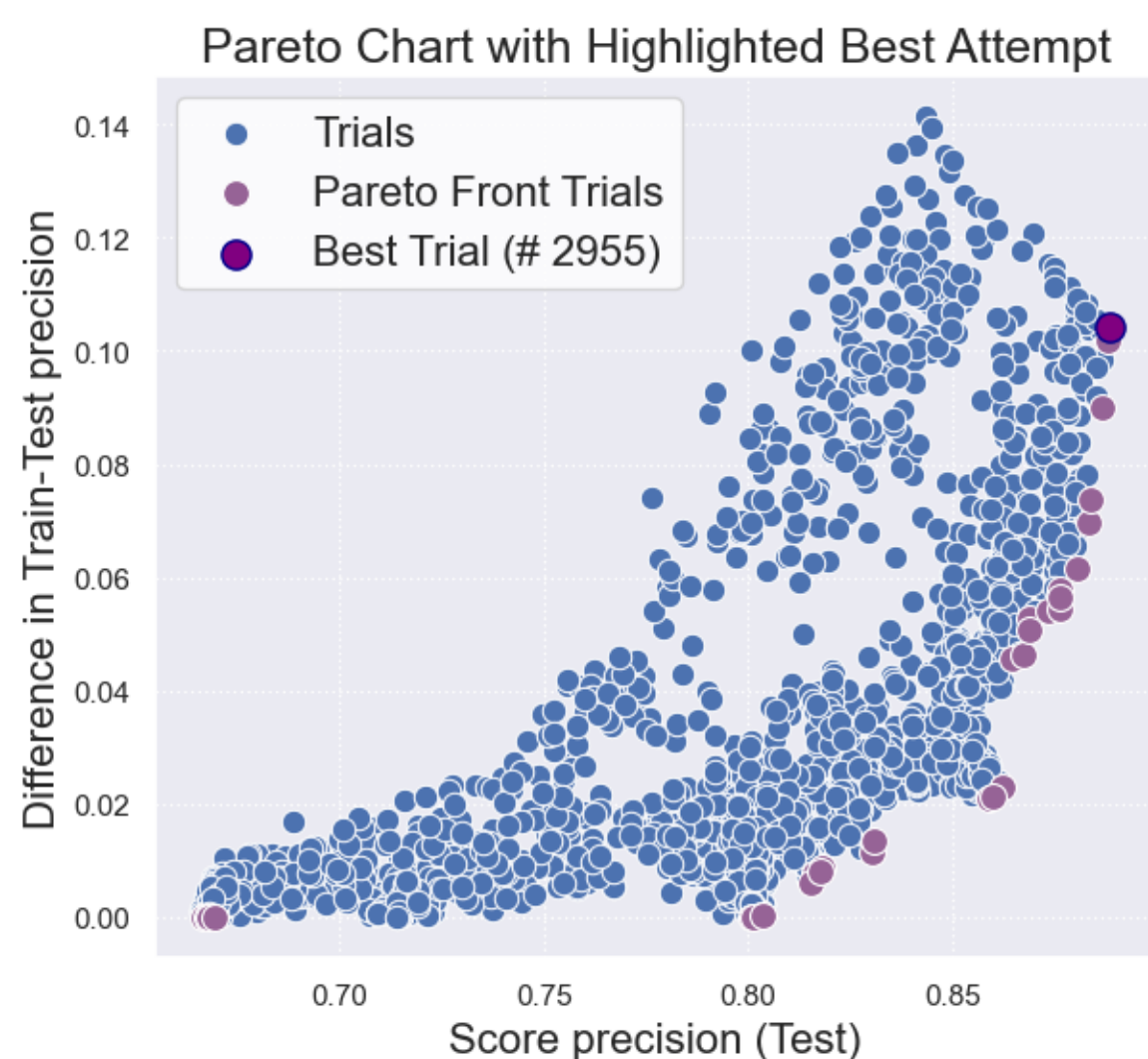
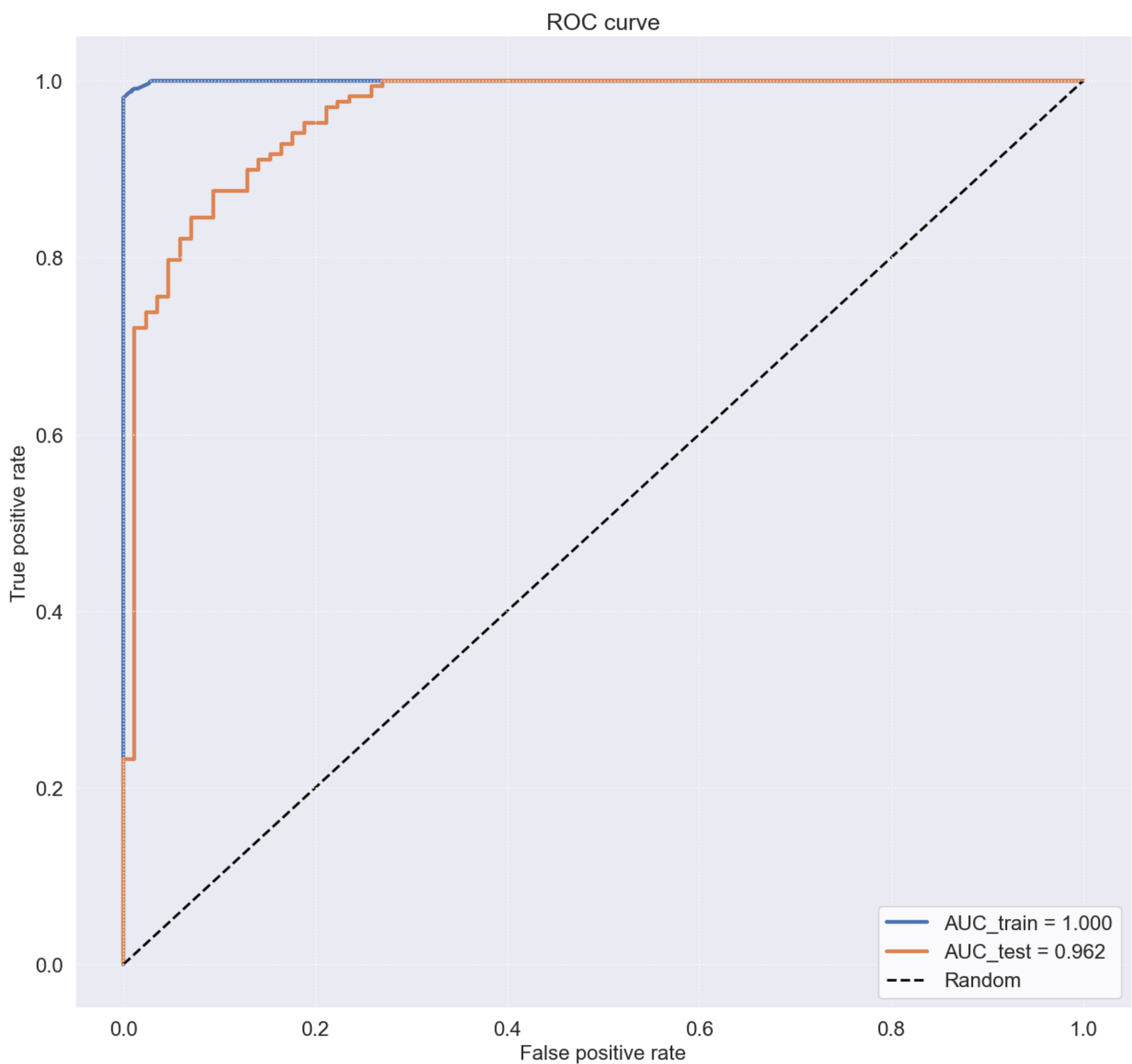
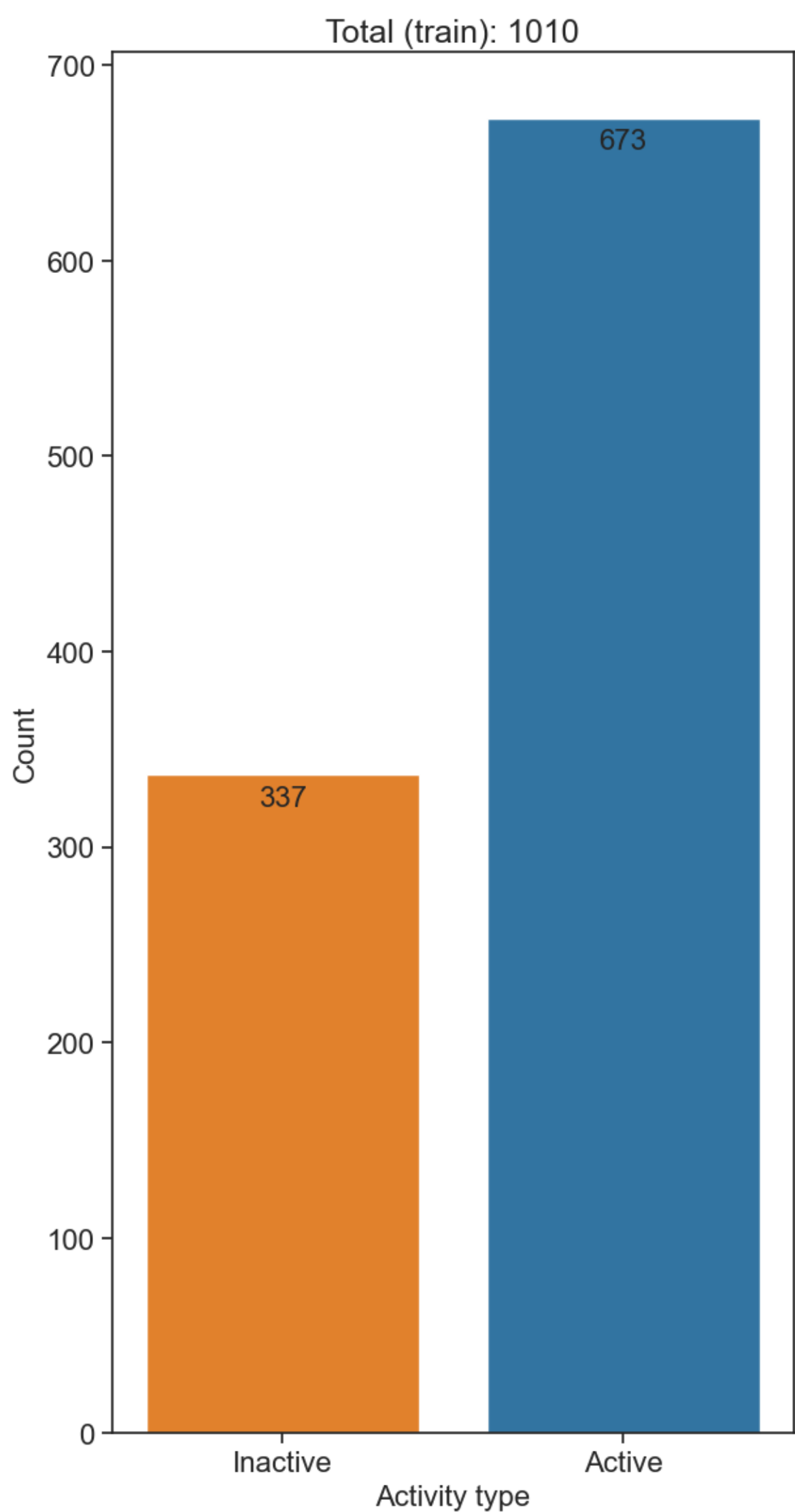


XGBoost Parameters	Value
alpha	4.8129
colsample_bytree	0.7838
gamma	0.0075
lambda	2.1785
learning_rate	0.0532
max_depth	7.0
min_child_weight	1.0
n_estimators	580.0
reg_alpha	0.801
reg_lambda	0.1089
scale_pos_weight	3.9168
subsample	0.7022

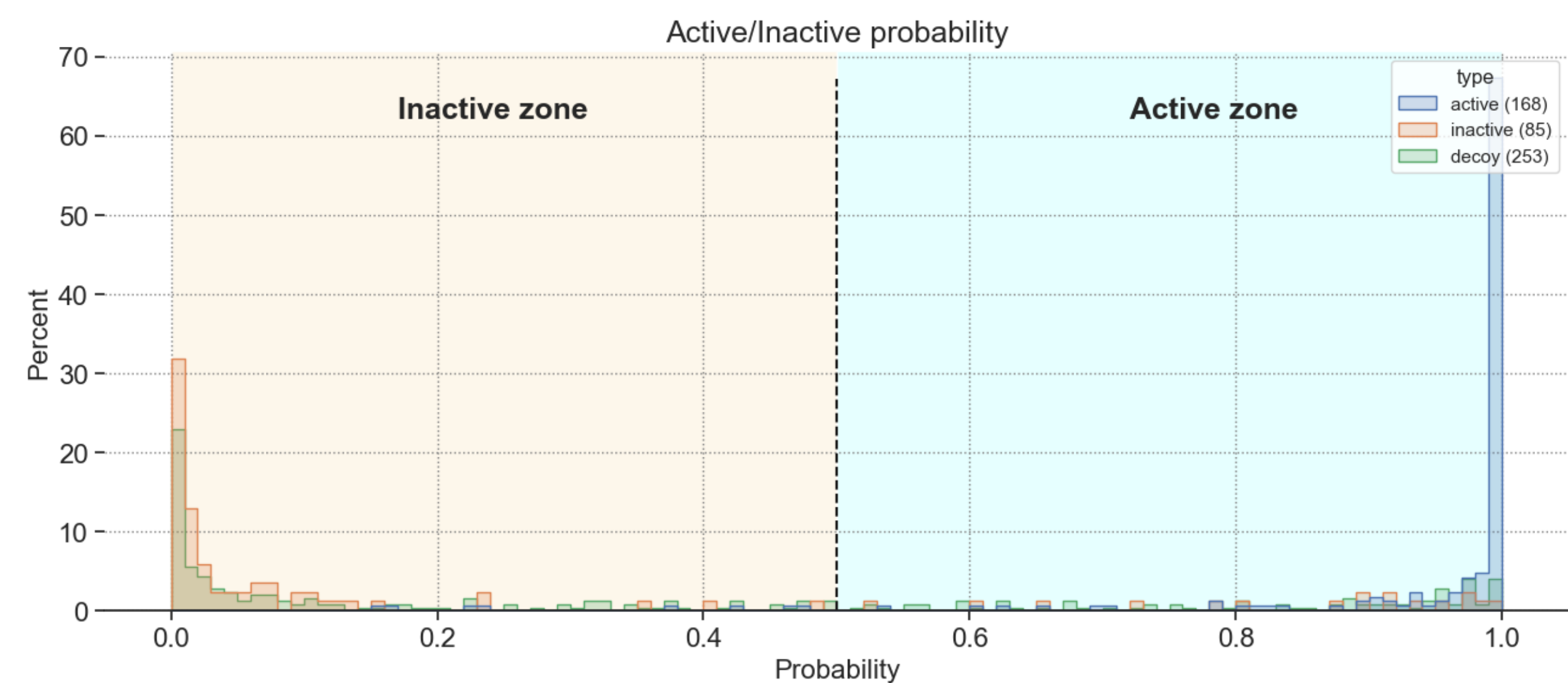
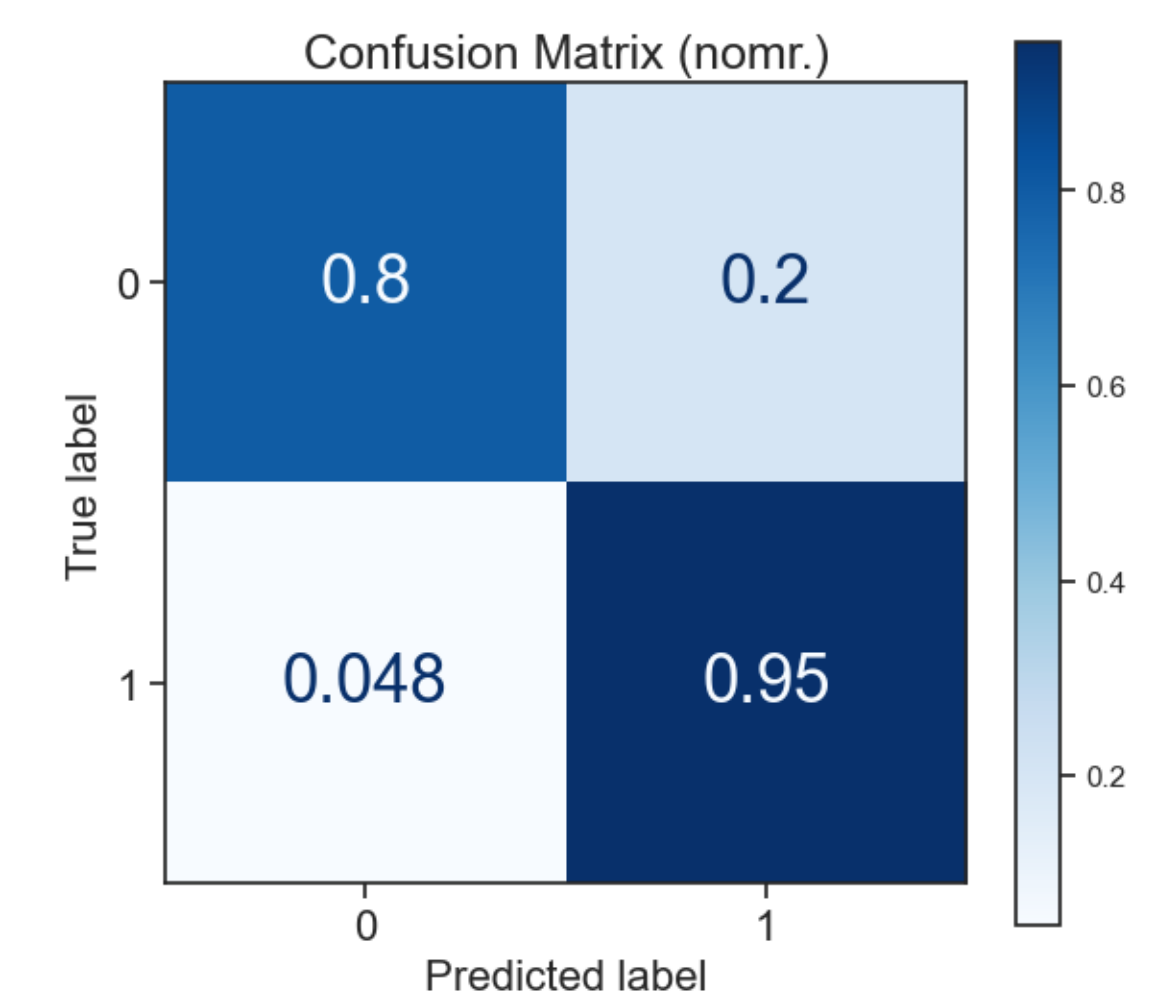
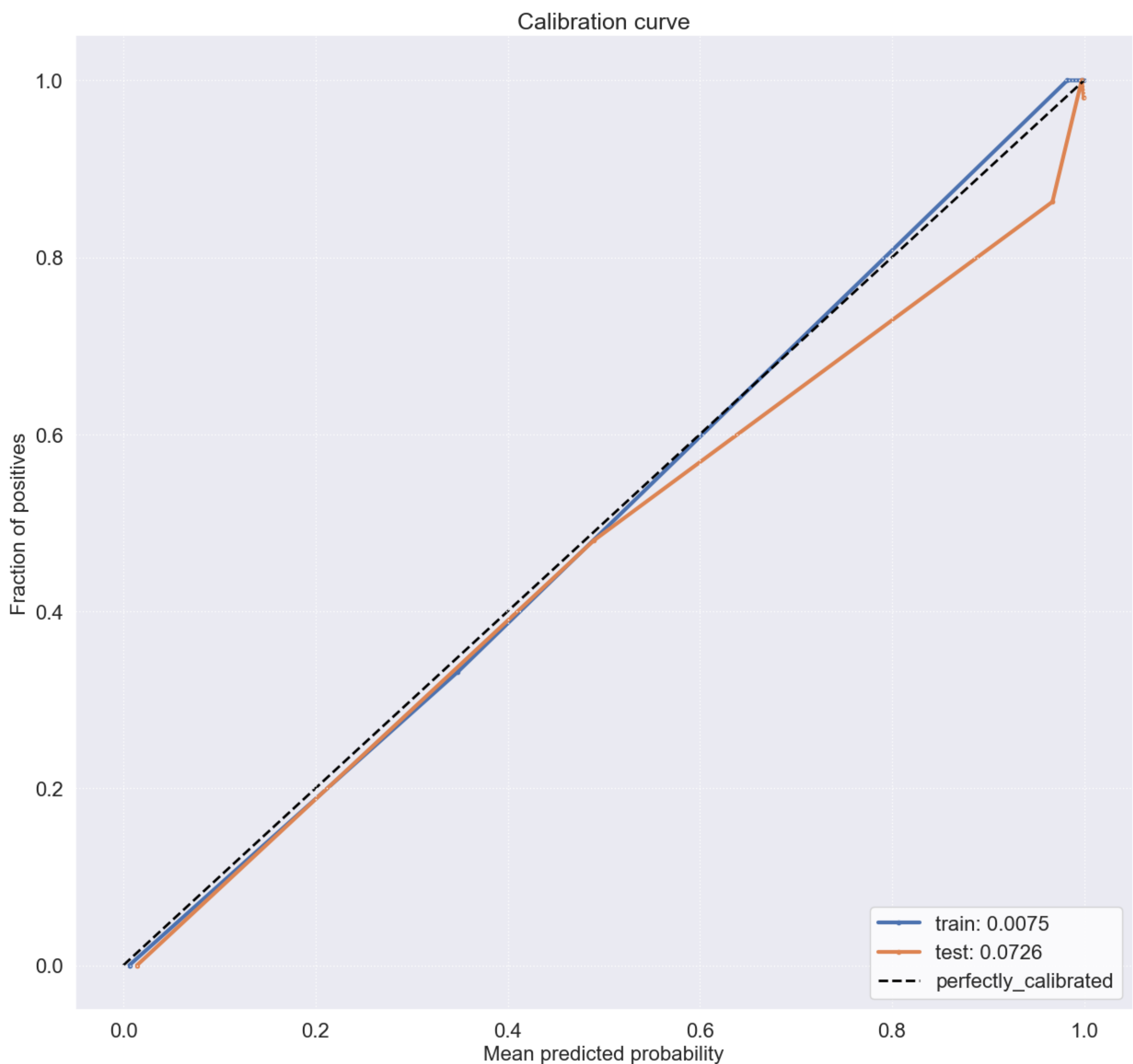
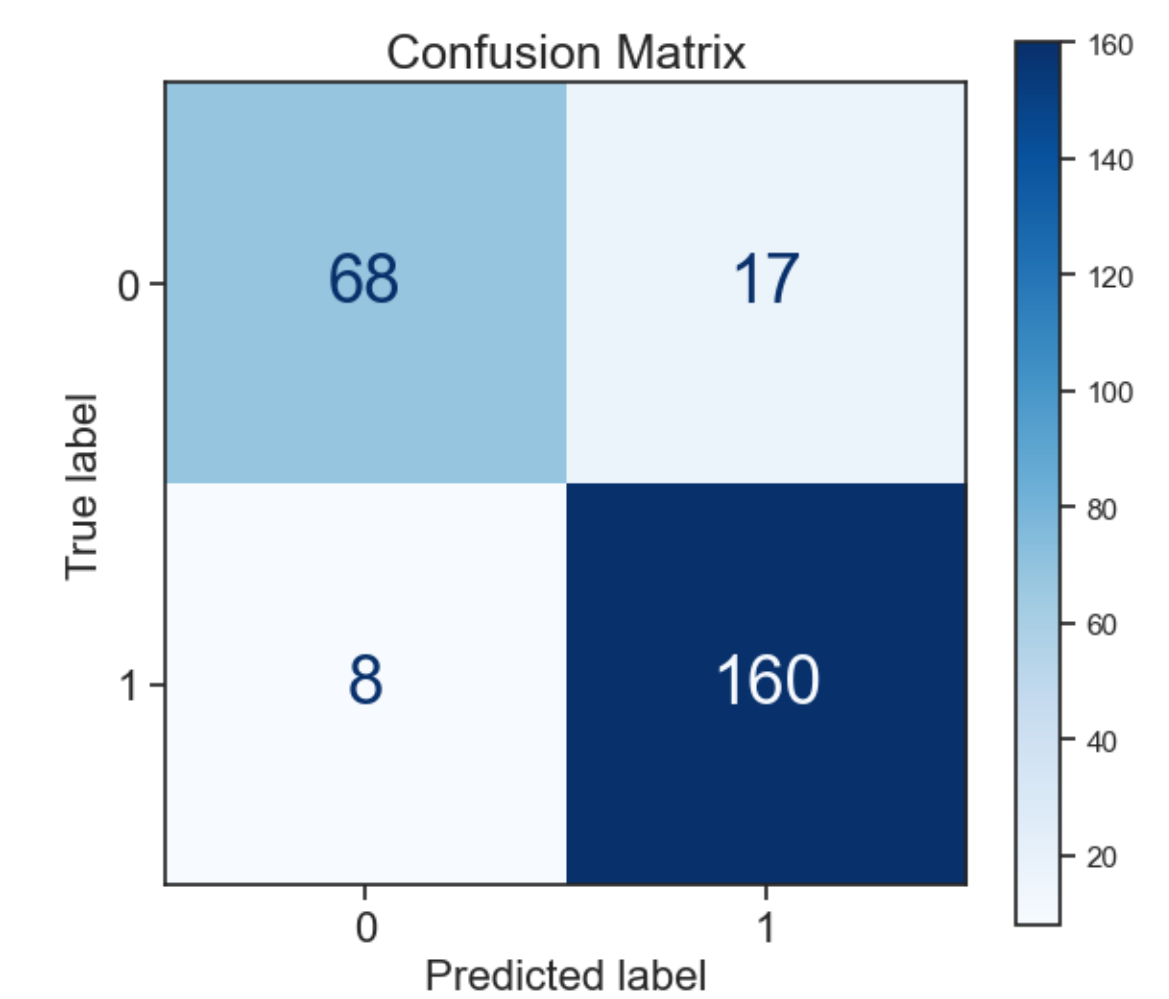


Metric	Train	Test
AUC	0.9996	0.9635
accuracy	0.9822	0.913
balanced accuracy	0.9733	0.8735
recall_(sens)	1.0	0.994
specificity	0.9466	0.7529
precision	0.974	0.8883
f1_score	0.9821	0.9097

Protein: O00519 - metric: precision

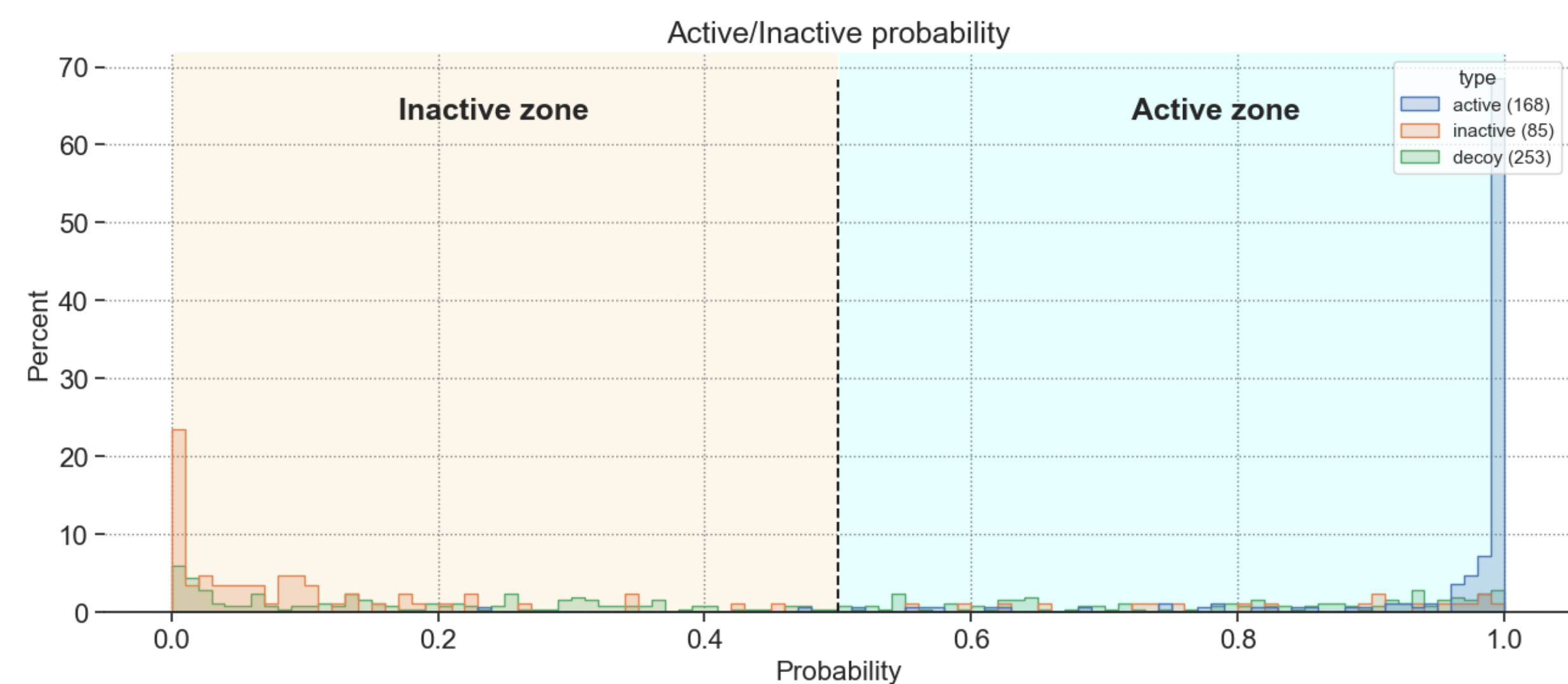
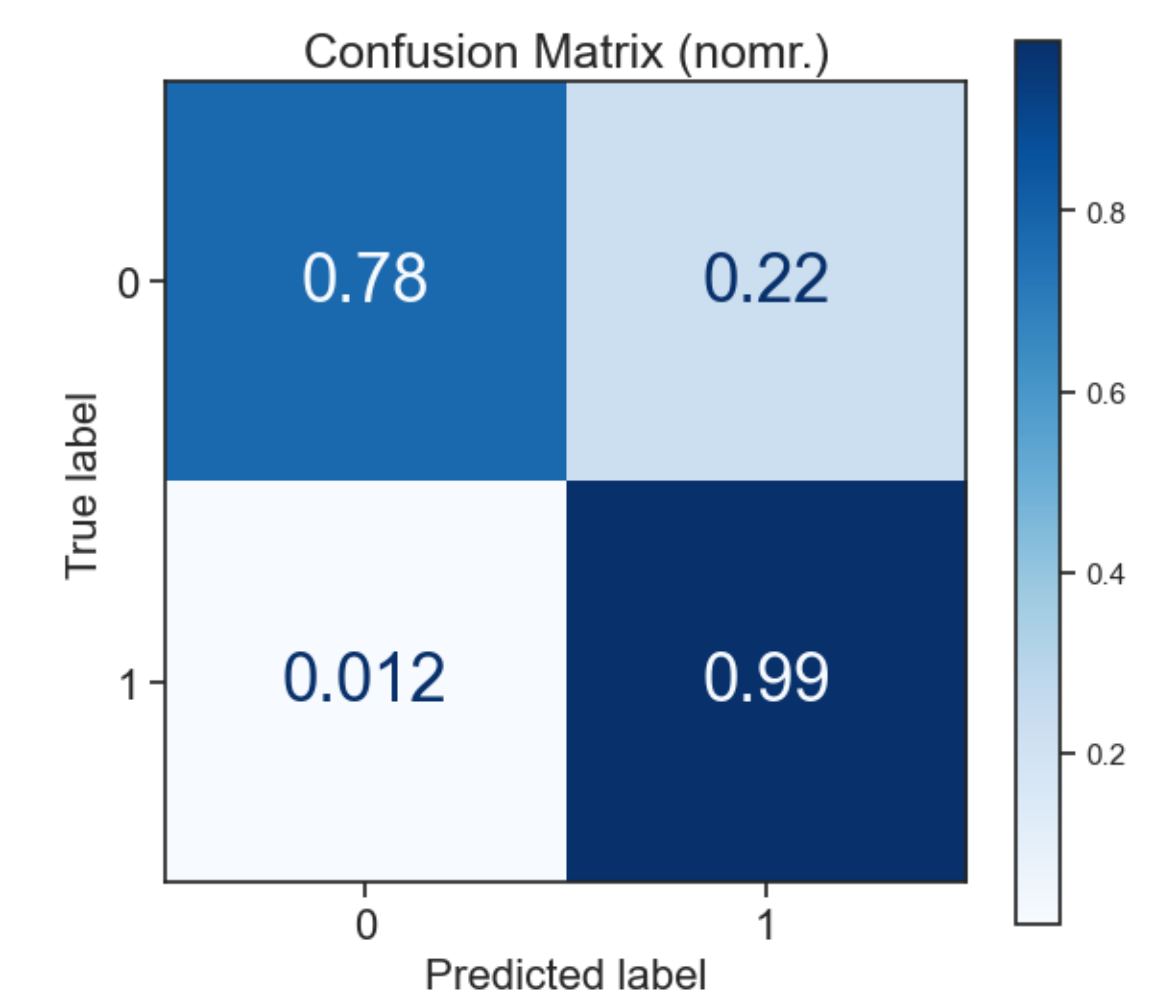
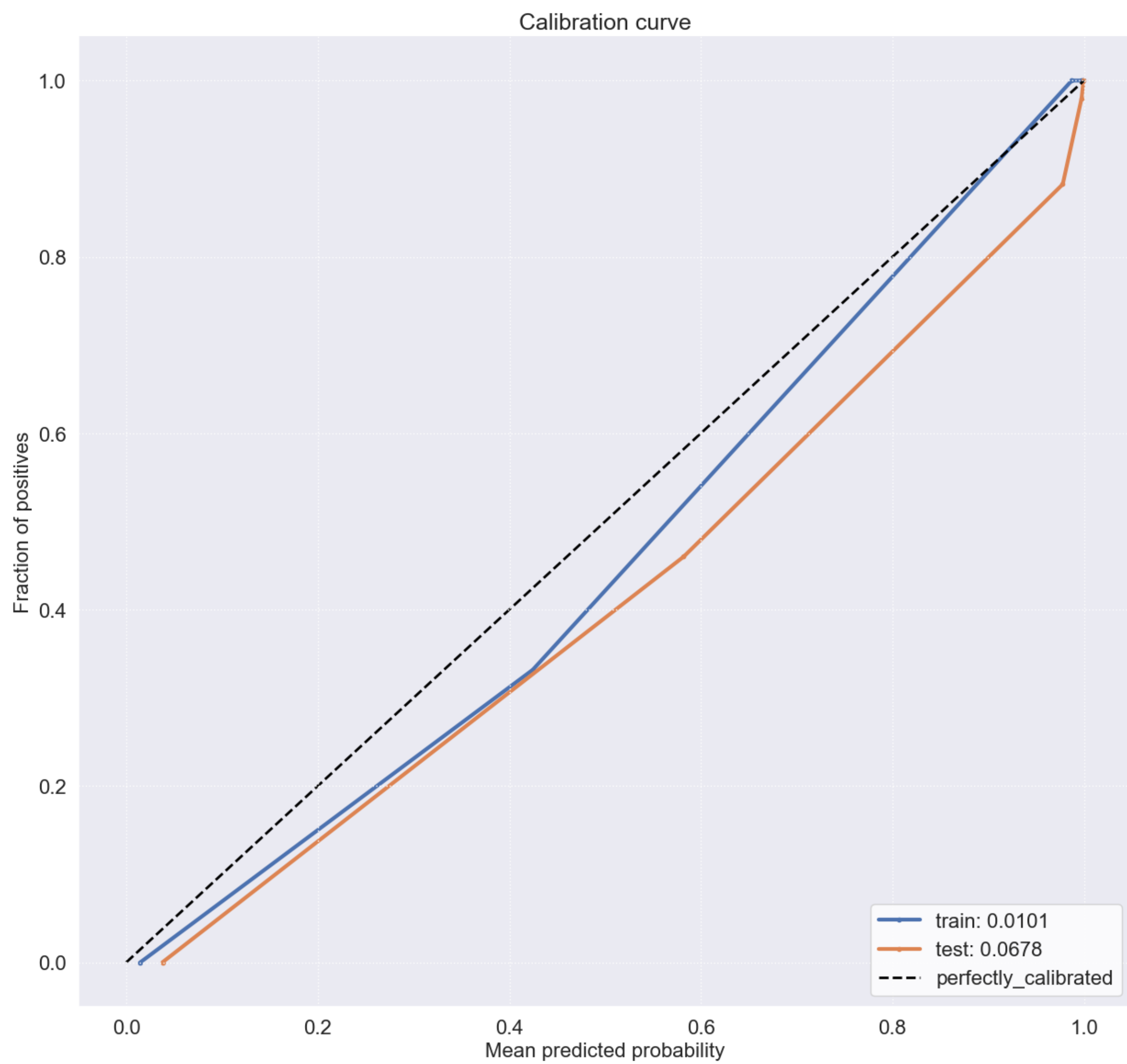
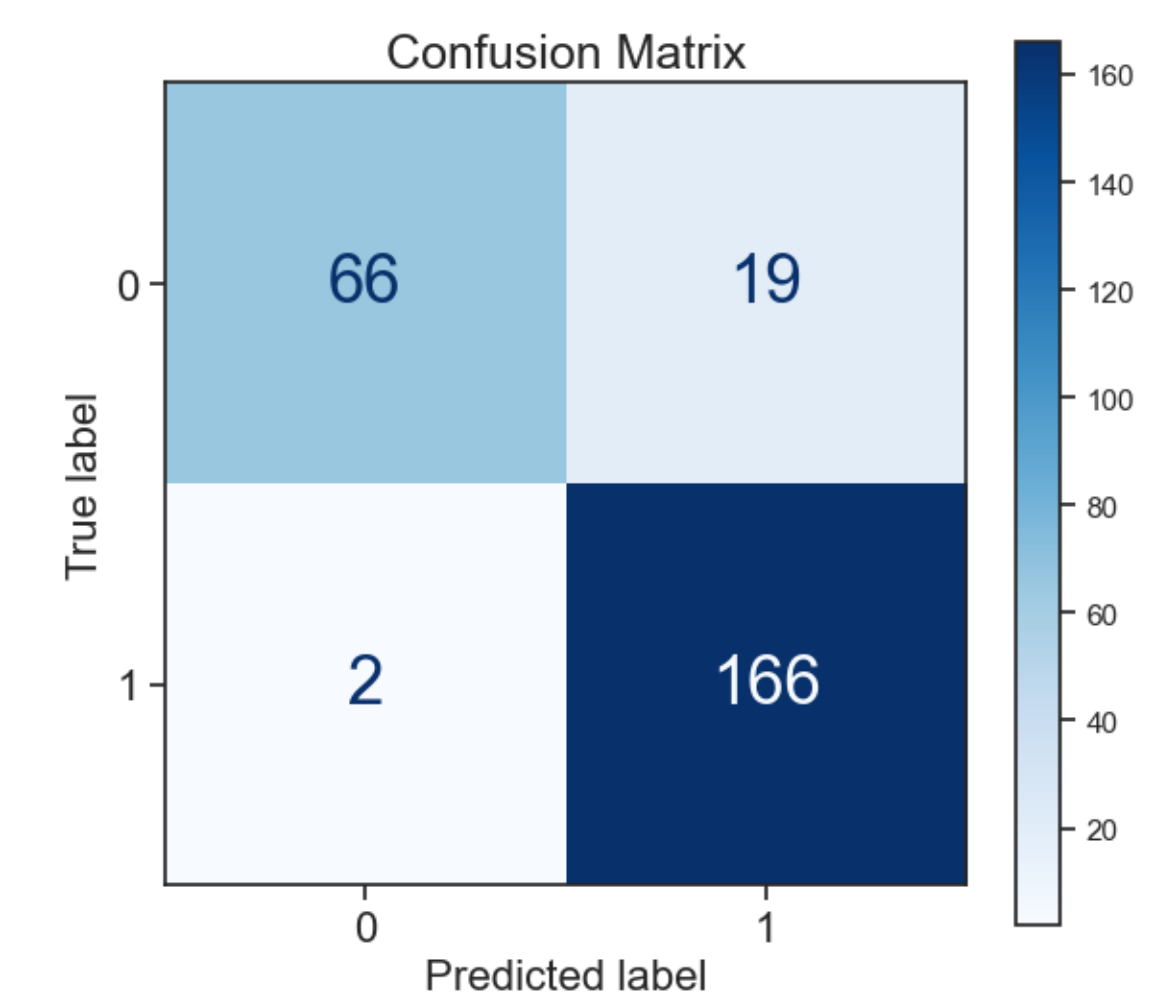
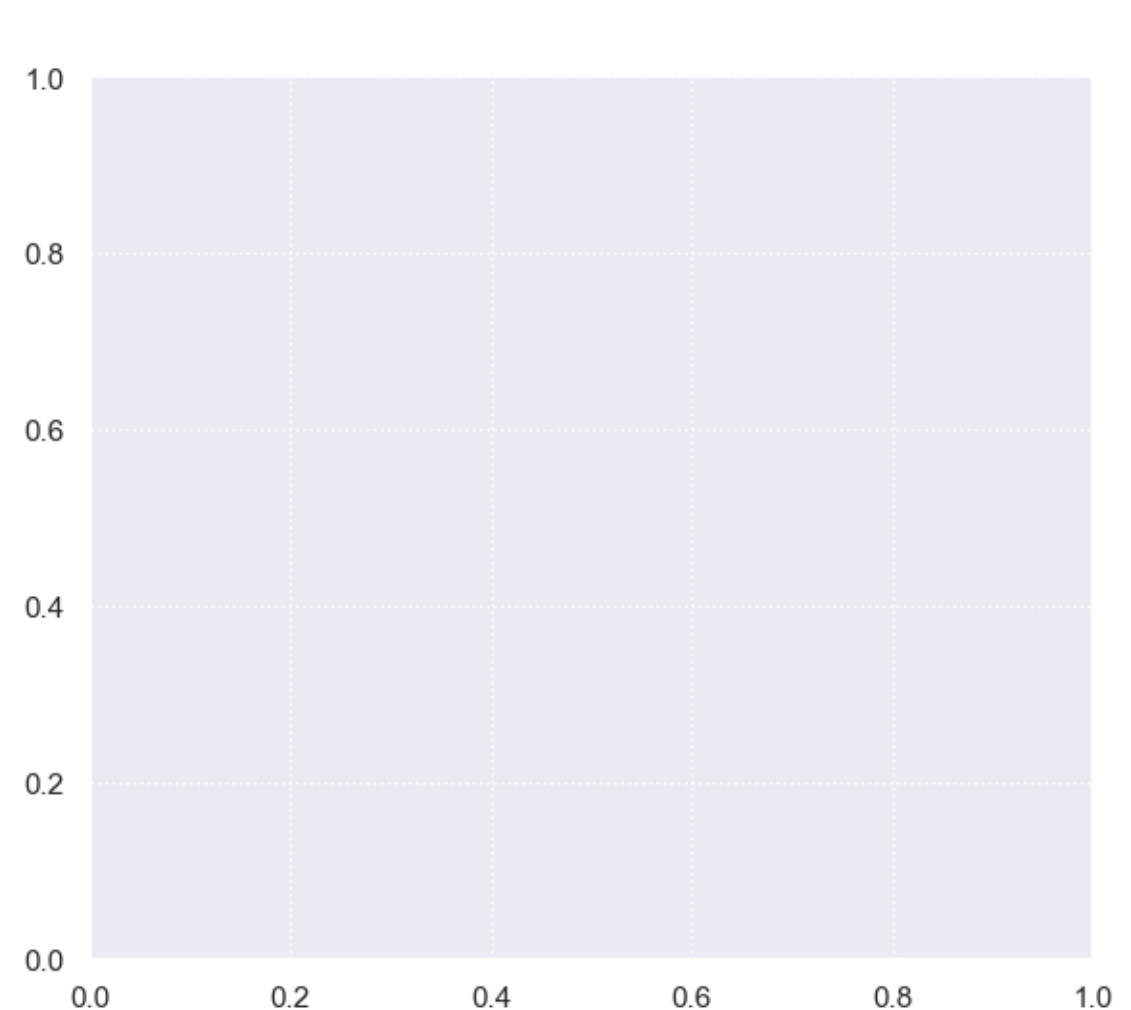
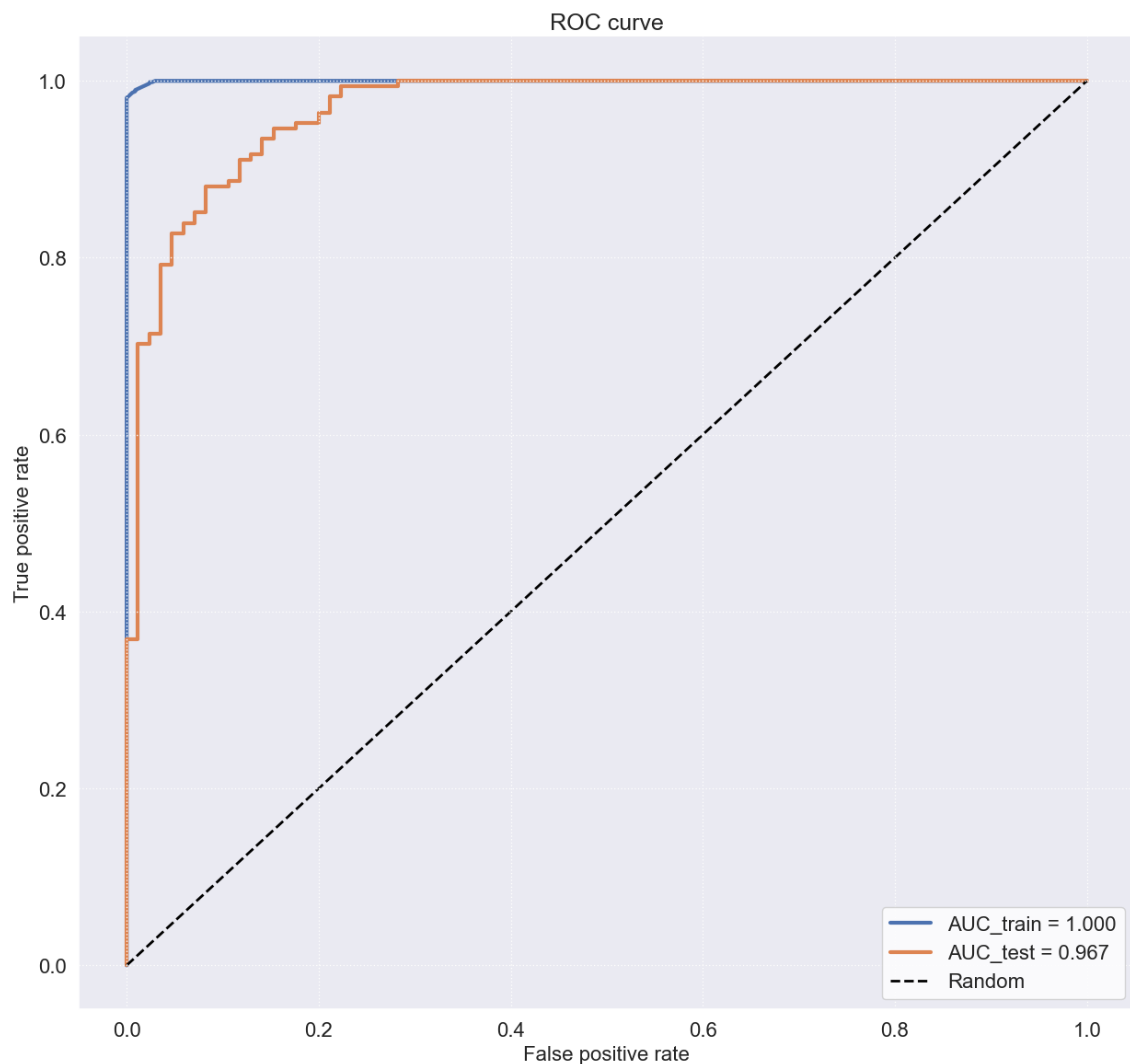
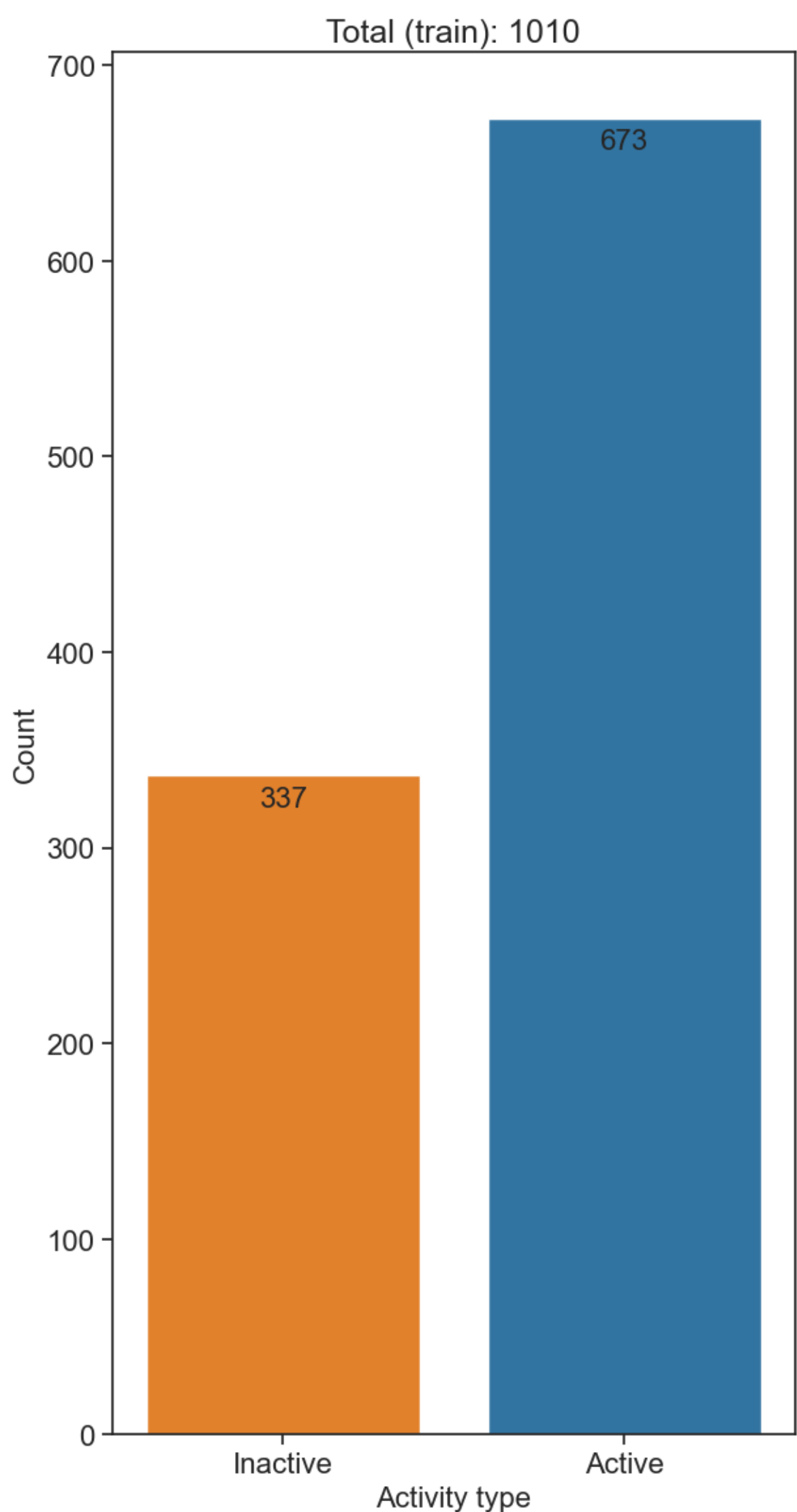


XGBoost Parameters	Value
alpha	4.9127
colsample_bytree	0.8088
gamma	0.1147
lambda	4.8615
learning_rate	0.3734
max_depth	7.0
min_child_weight	1.0
n_estimators	921.0
reg_alpha	0.0118
reg_lambda	0.5397
scale_pos_weight	1.0463
subsample	0.9553



Metric	Train	Test
AUC	0.9997	0.9622
accuracy	0.9891	0.9012
balanced accuracy	0.9874	0.8762
recall_(sens)	0.9926	0.9524
specificity	0.9822	0.8
precision	0.9911	0.904
f1_score	0.9891	0.8997

Protein: O00519 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9998	0.9673
accuracy	0.9901	0.917
balanced accuracy	0.9852	0.8823
recall_(sens)	1.0	0.9881
specificity	0.9703	0.7765
precision	0.9854	0.8973
f1_score	0.9901	0.9144