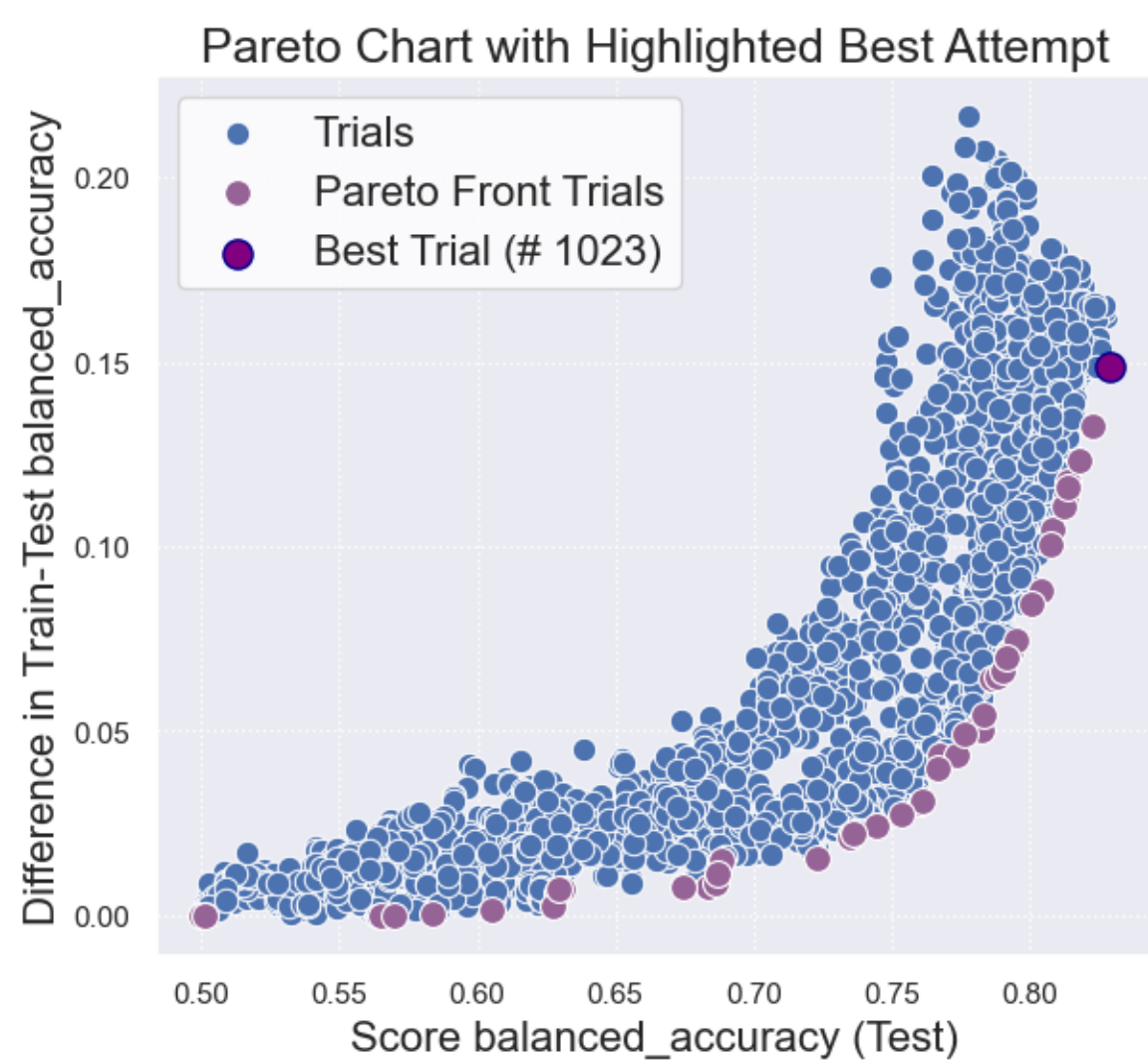
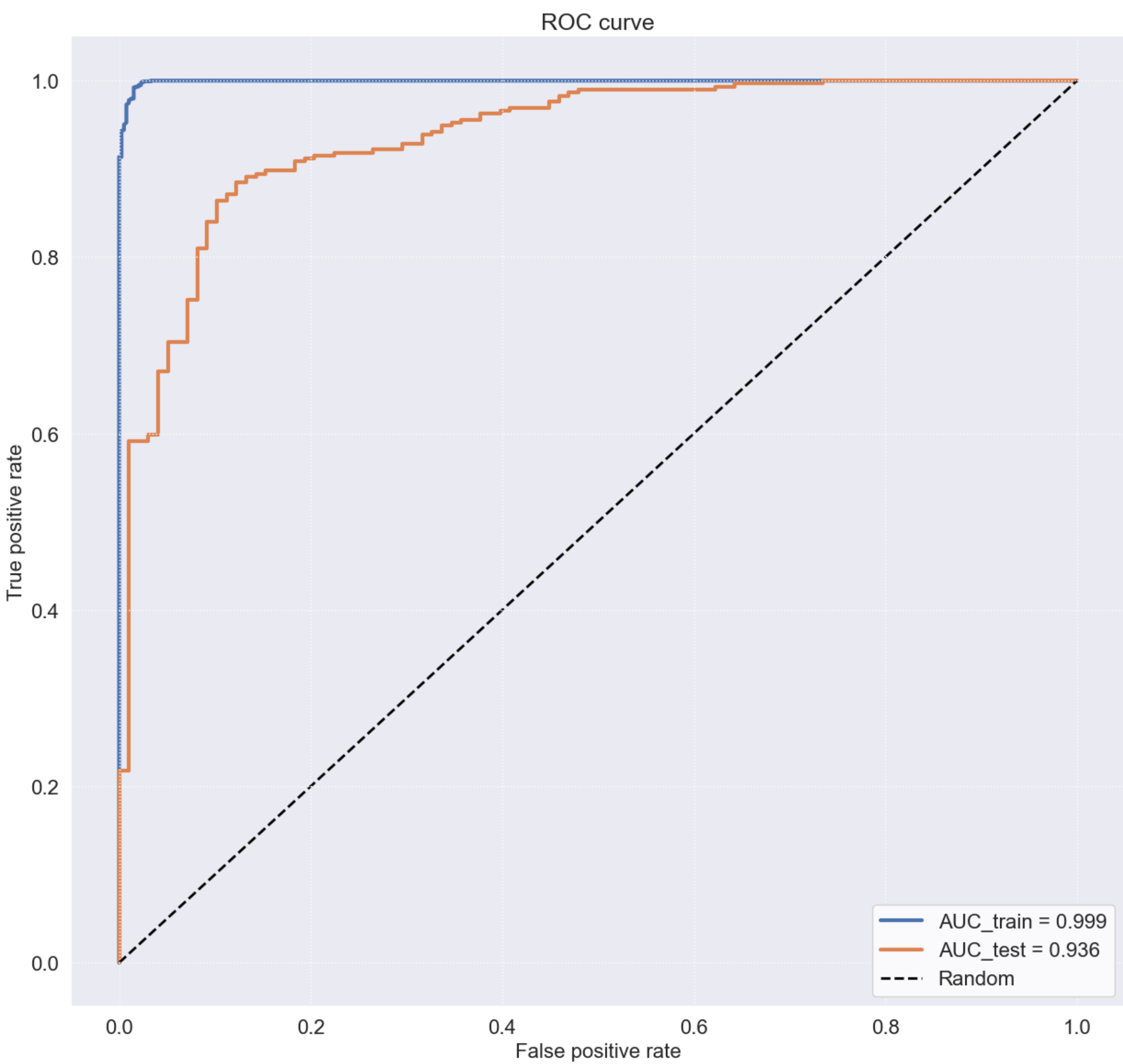
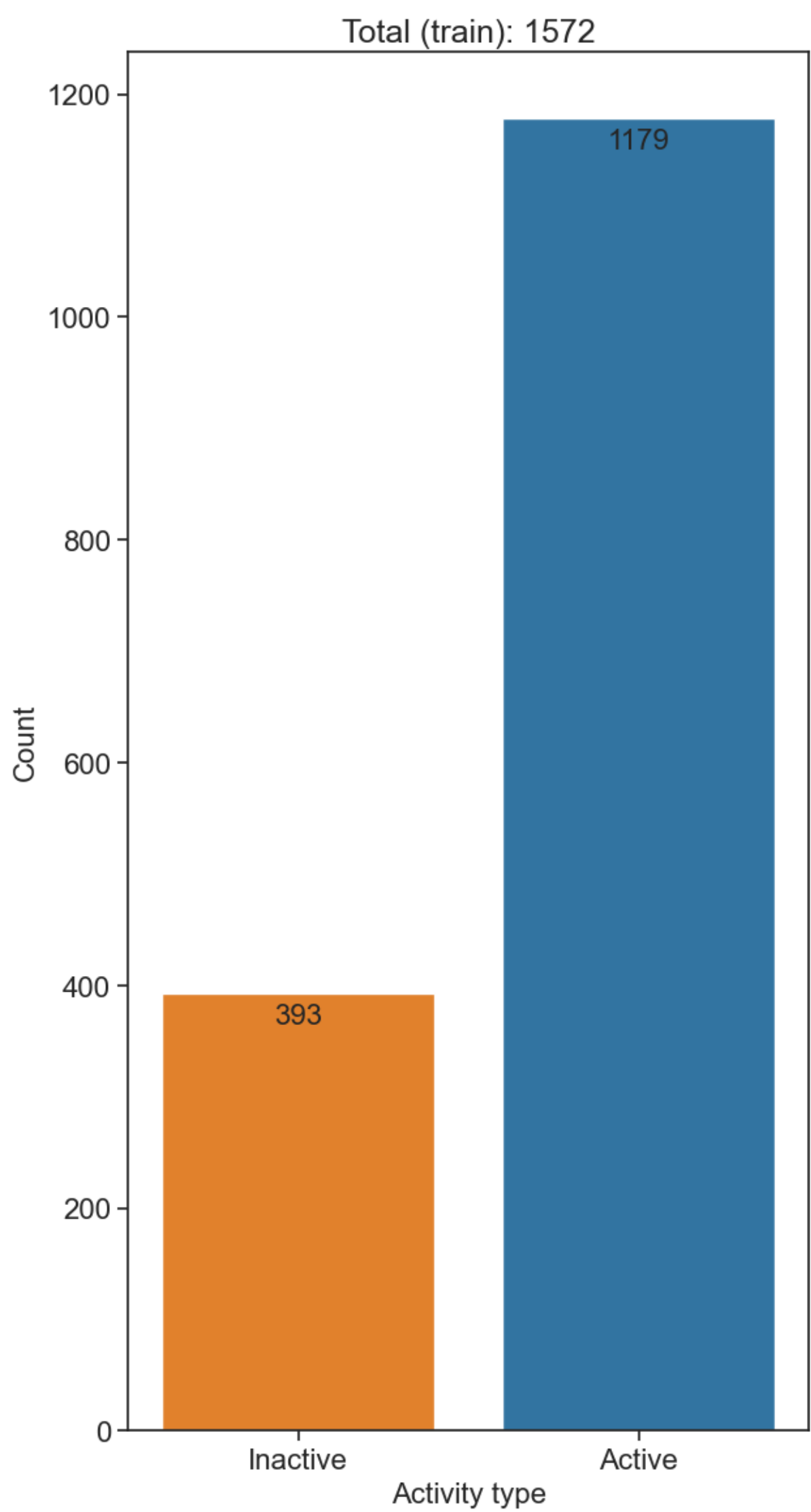
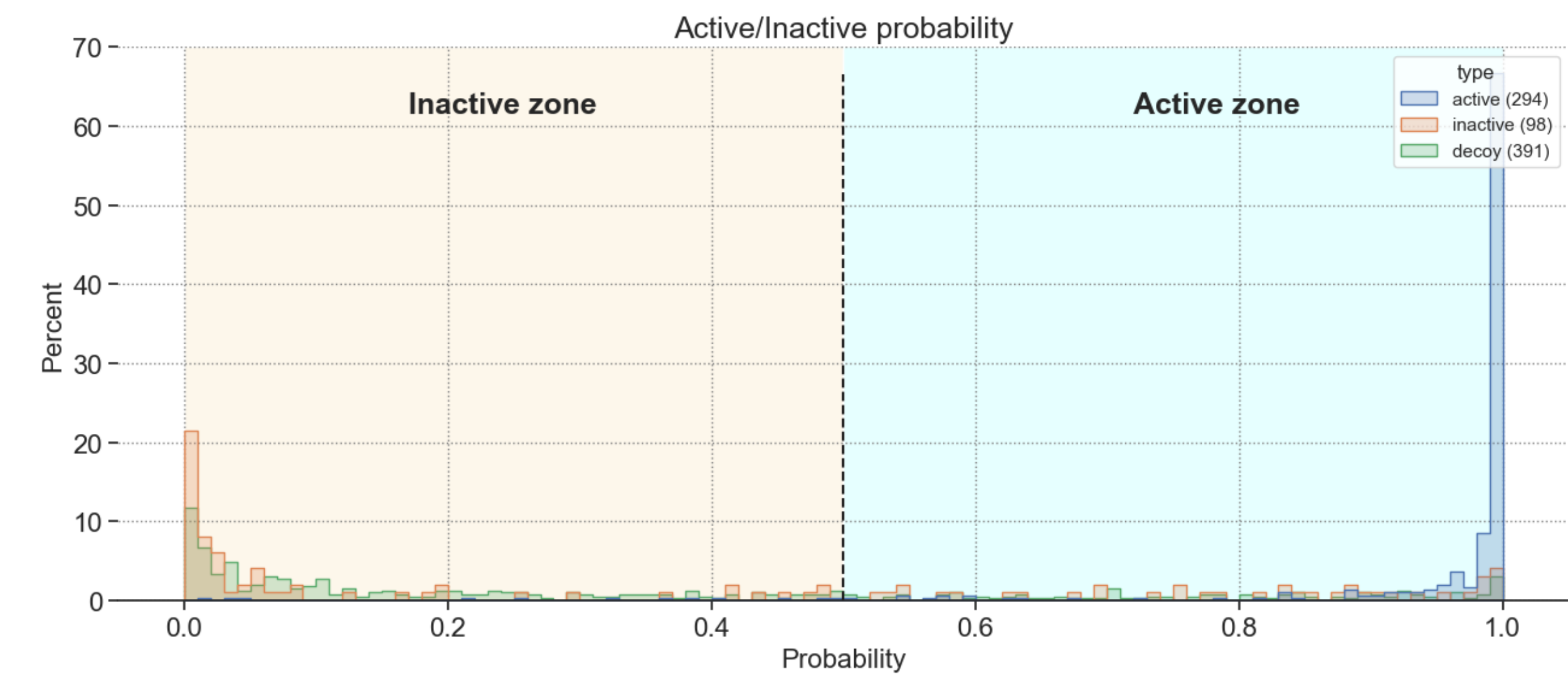
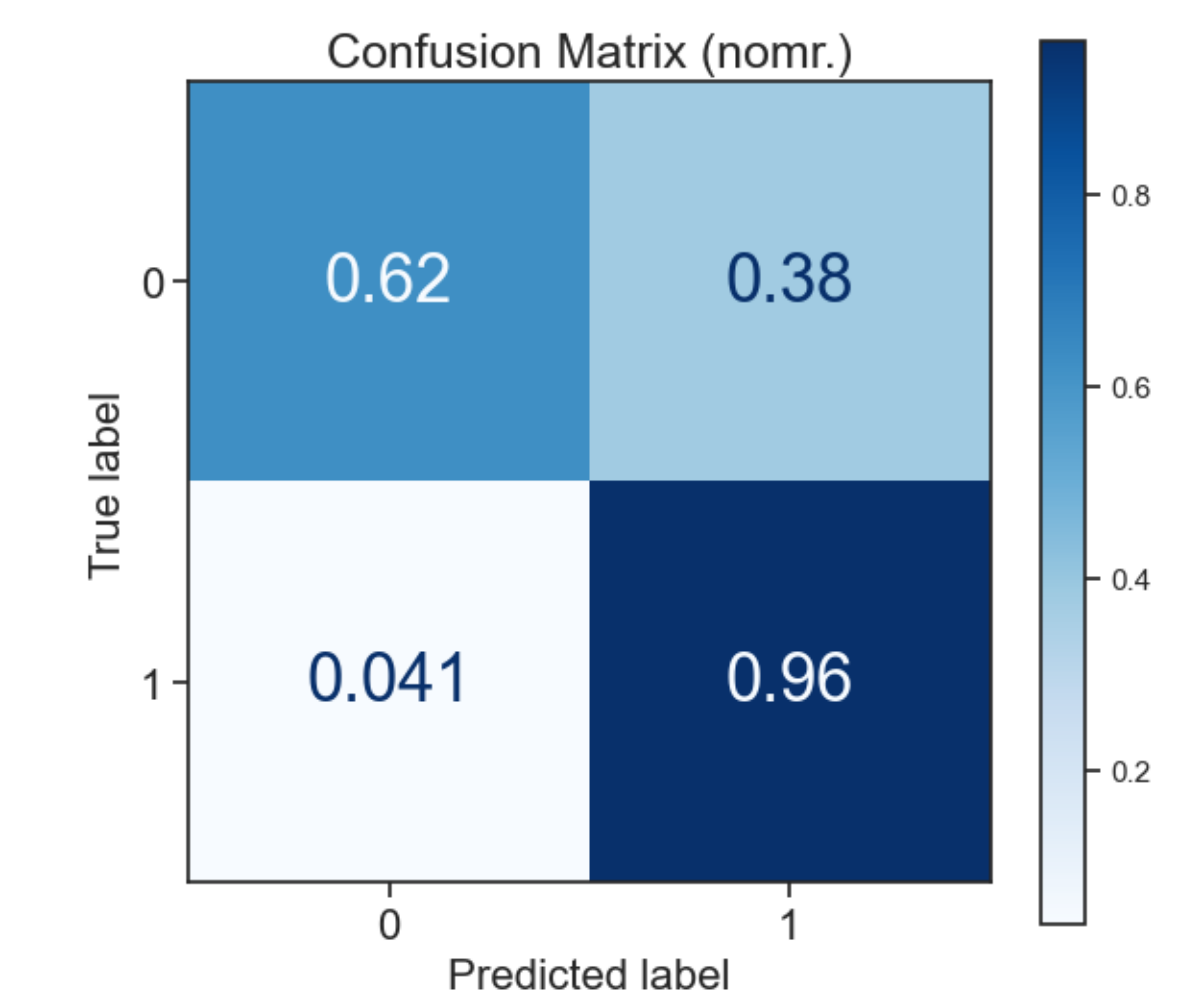
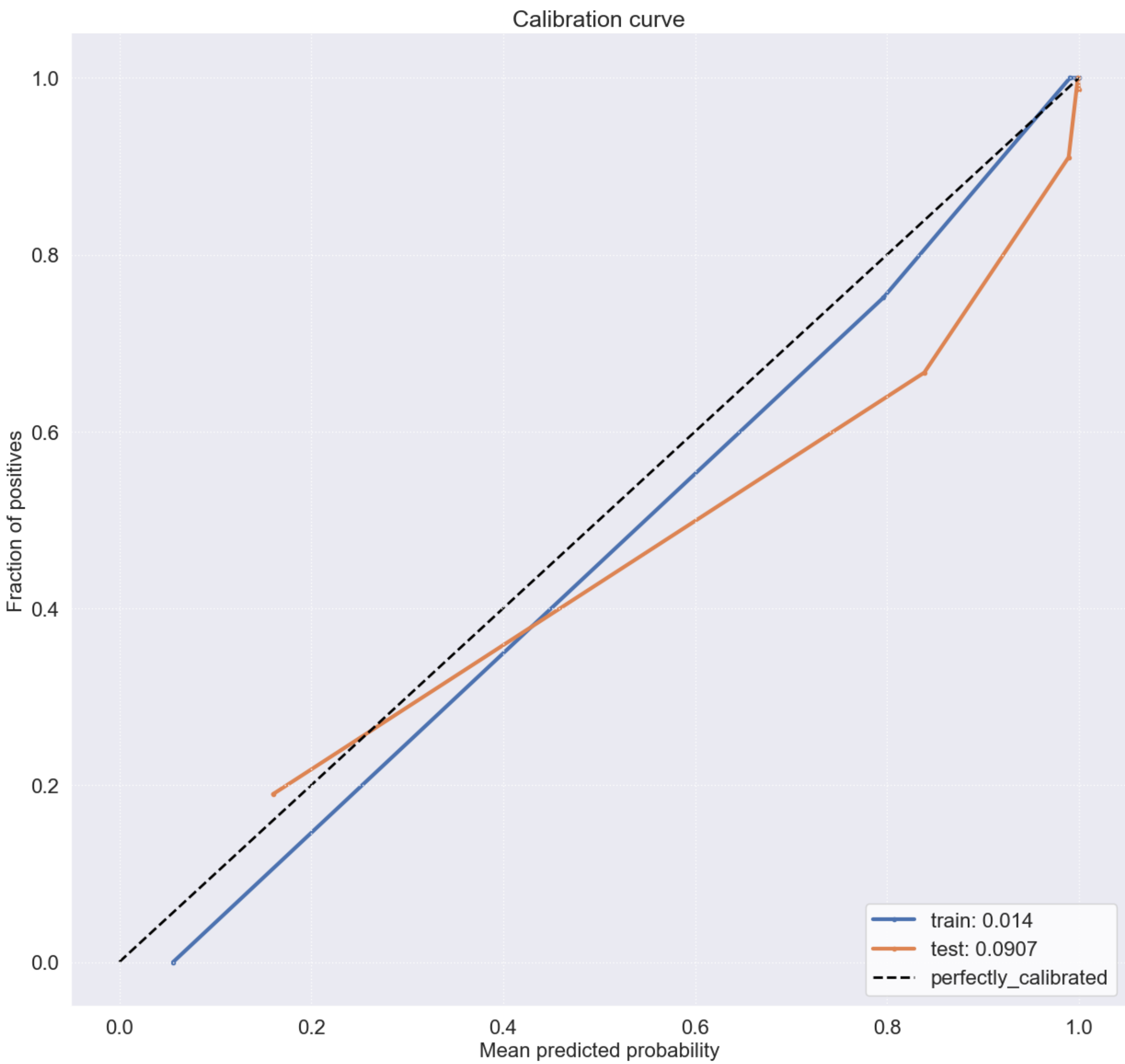
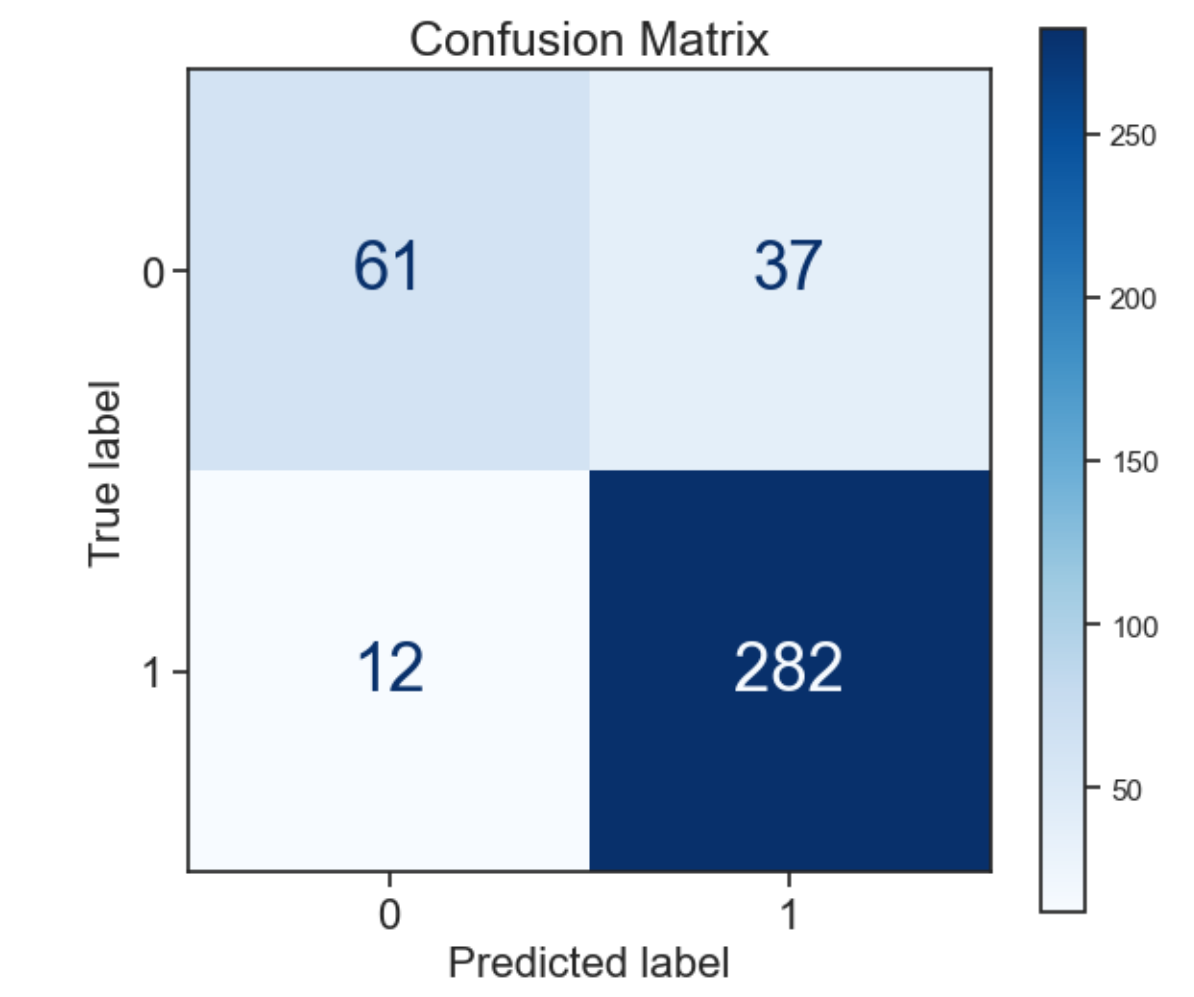


Protein: Q8NER1 - metric: balanced_accuracy

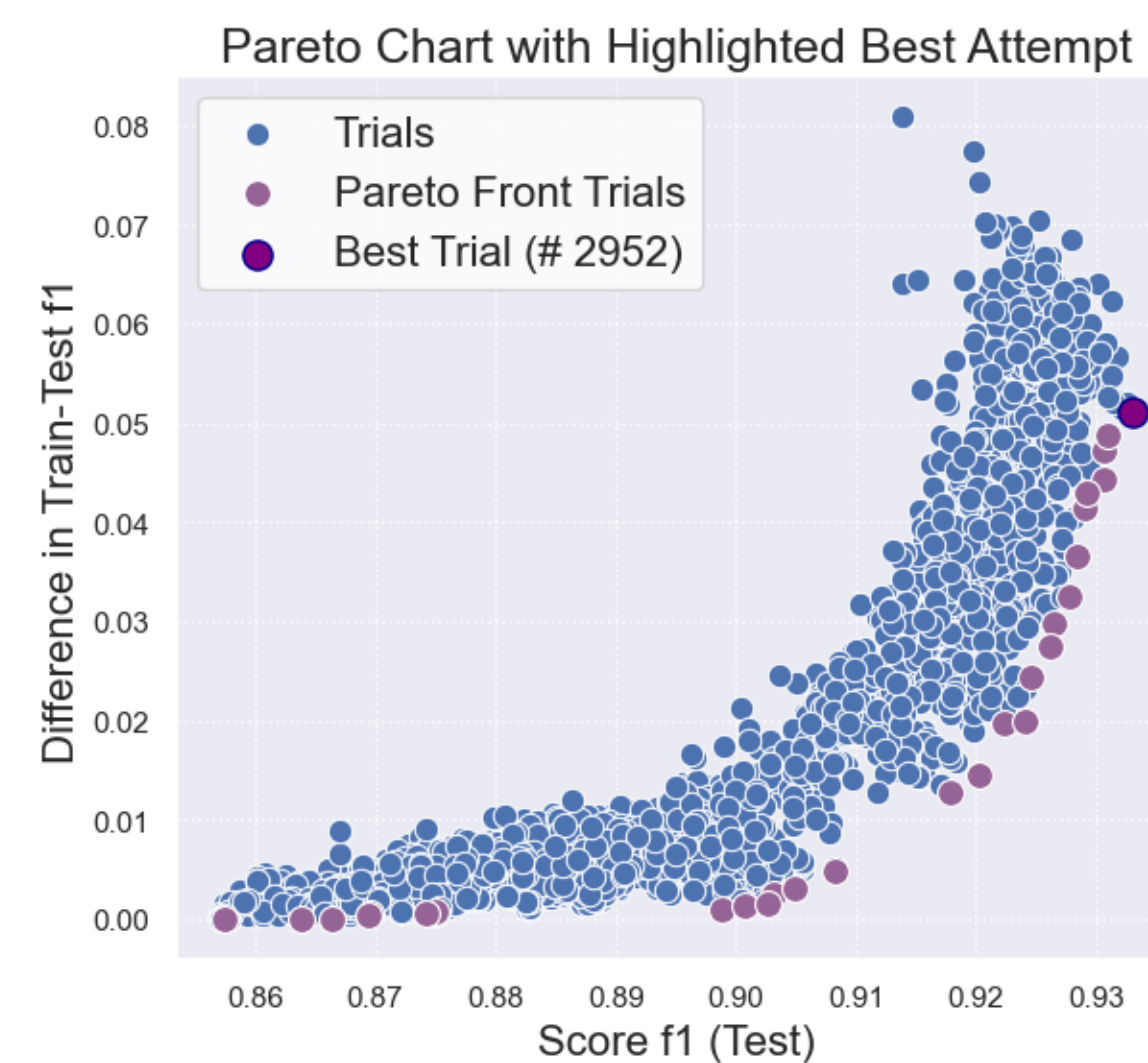
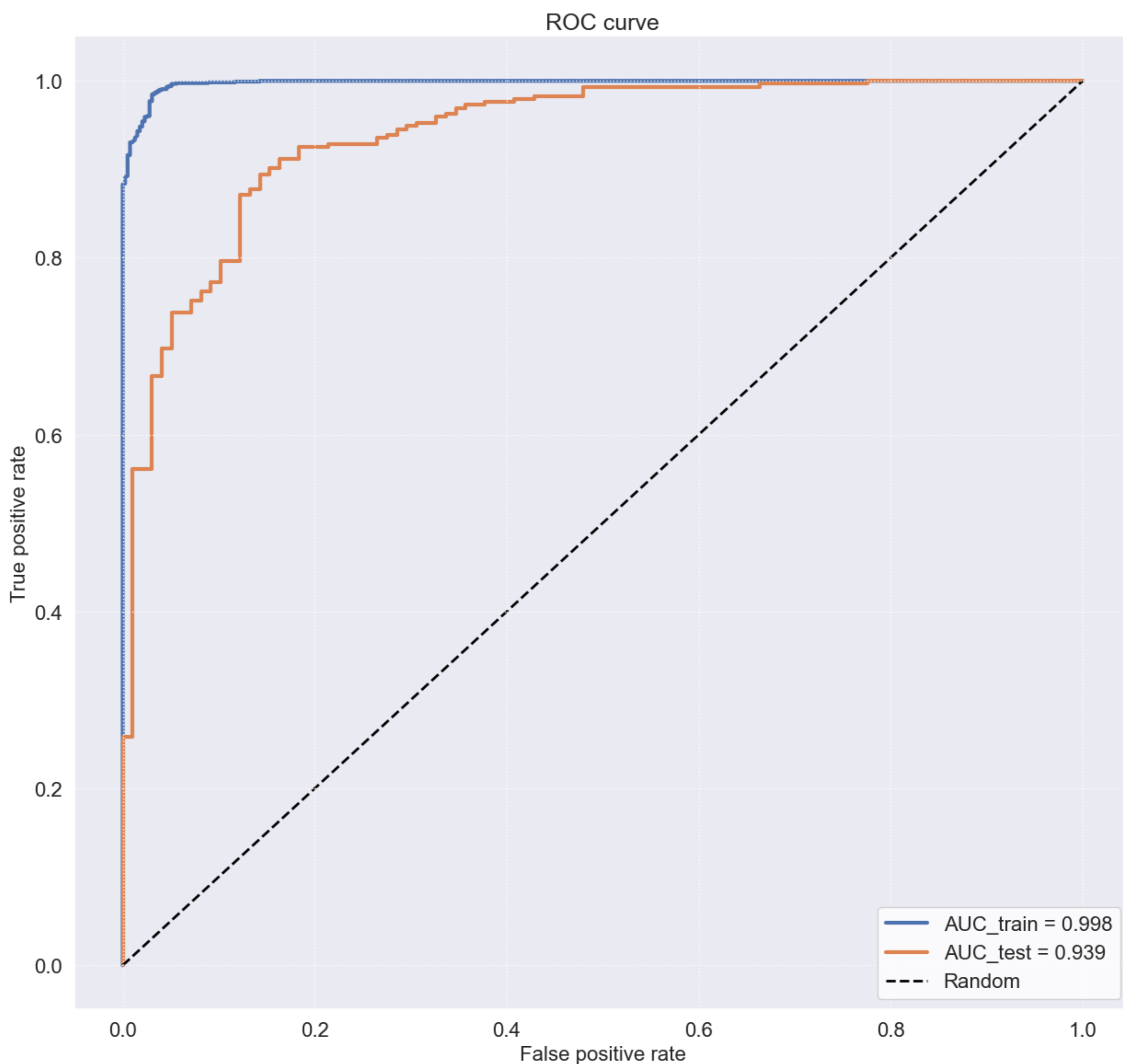
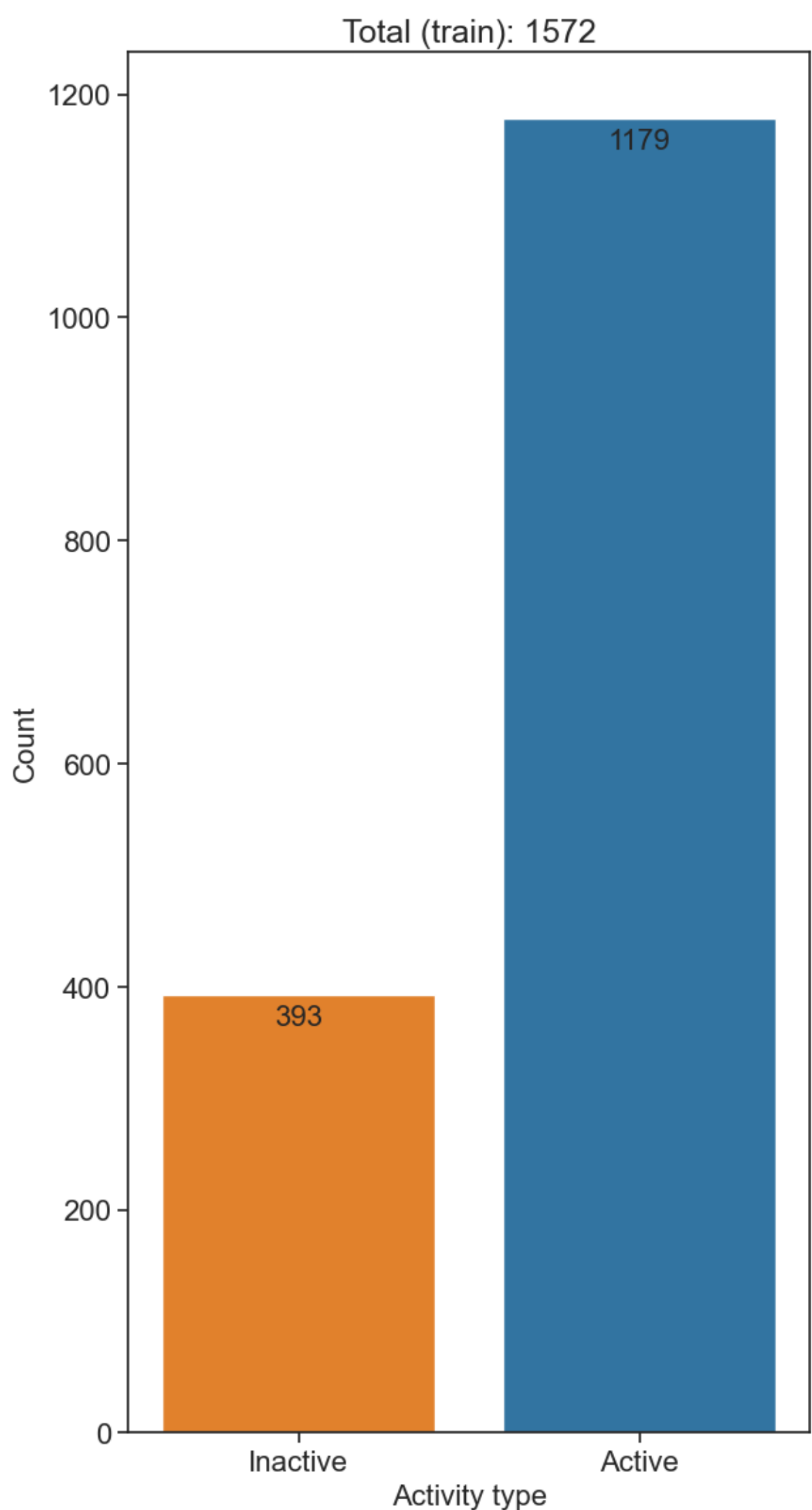


XGBoost Parameters	Value
alpha	1.2209
colsample_bytree	0.9095
gamma	0.42
lambda	0.2793
learning_rate	0.1701
max_depth	3.0
min_child_weight	2.0
n_estimators	916.0
reg_alpha	0.0389
reg_lambda	0.9192
scale_pos_weight	2.3338
subsample	0.6844

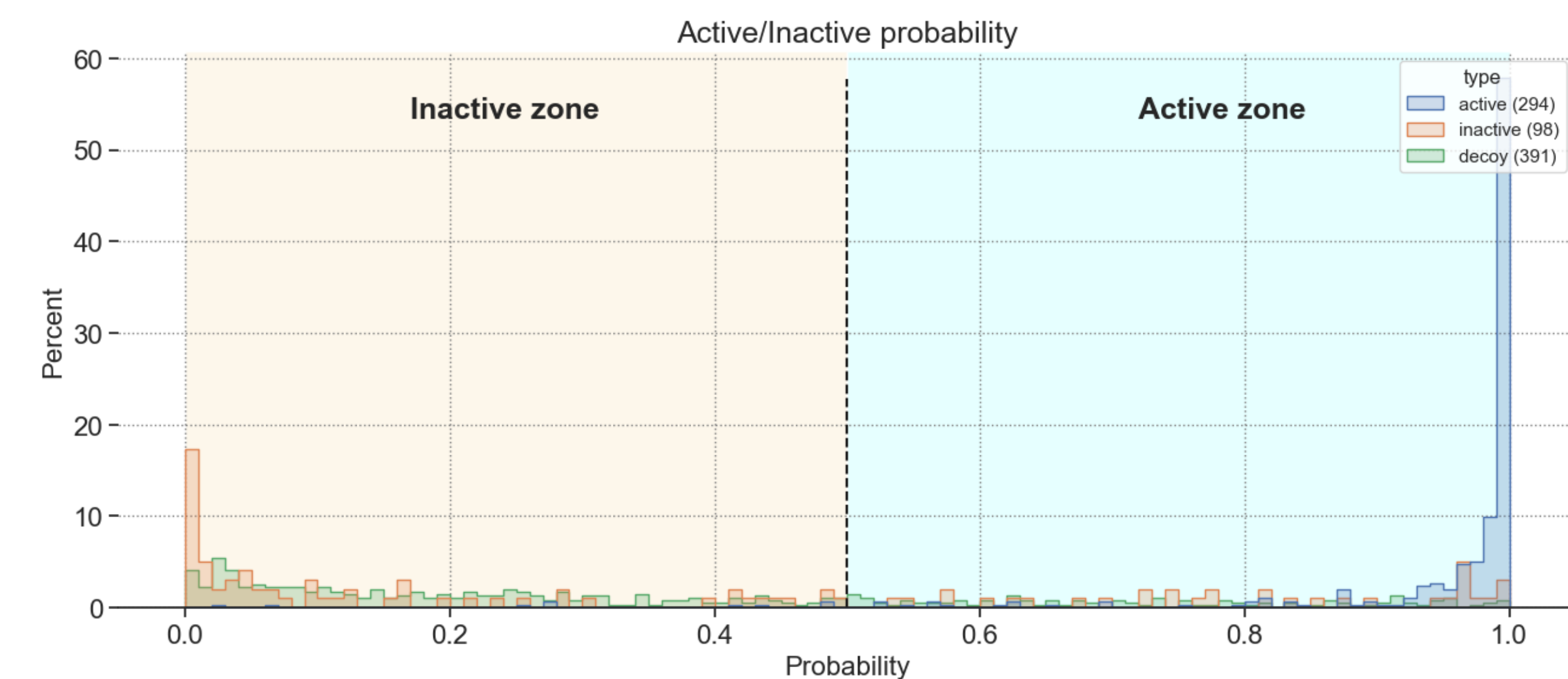
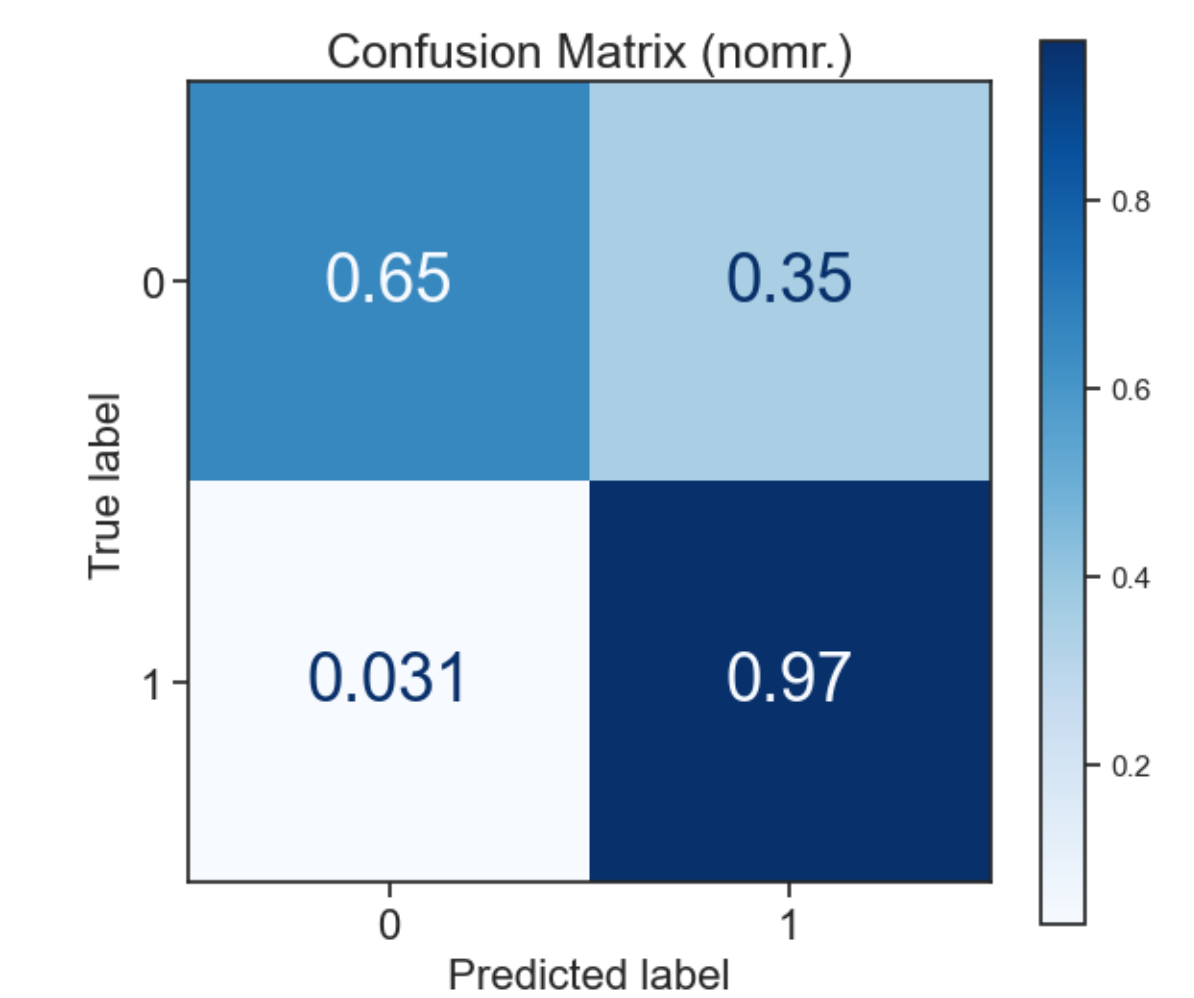
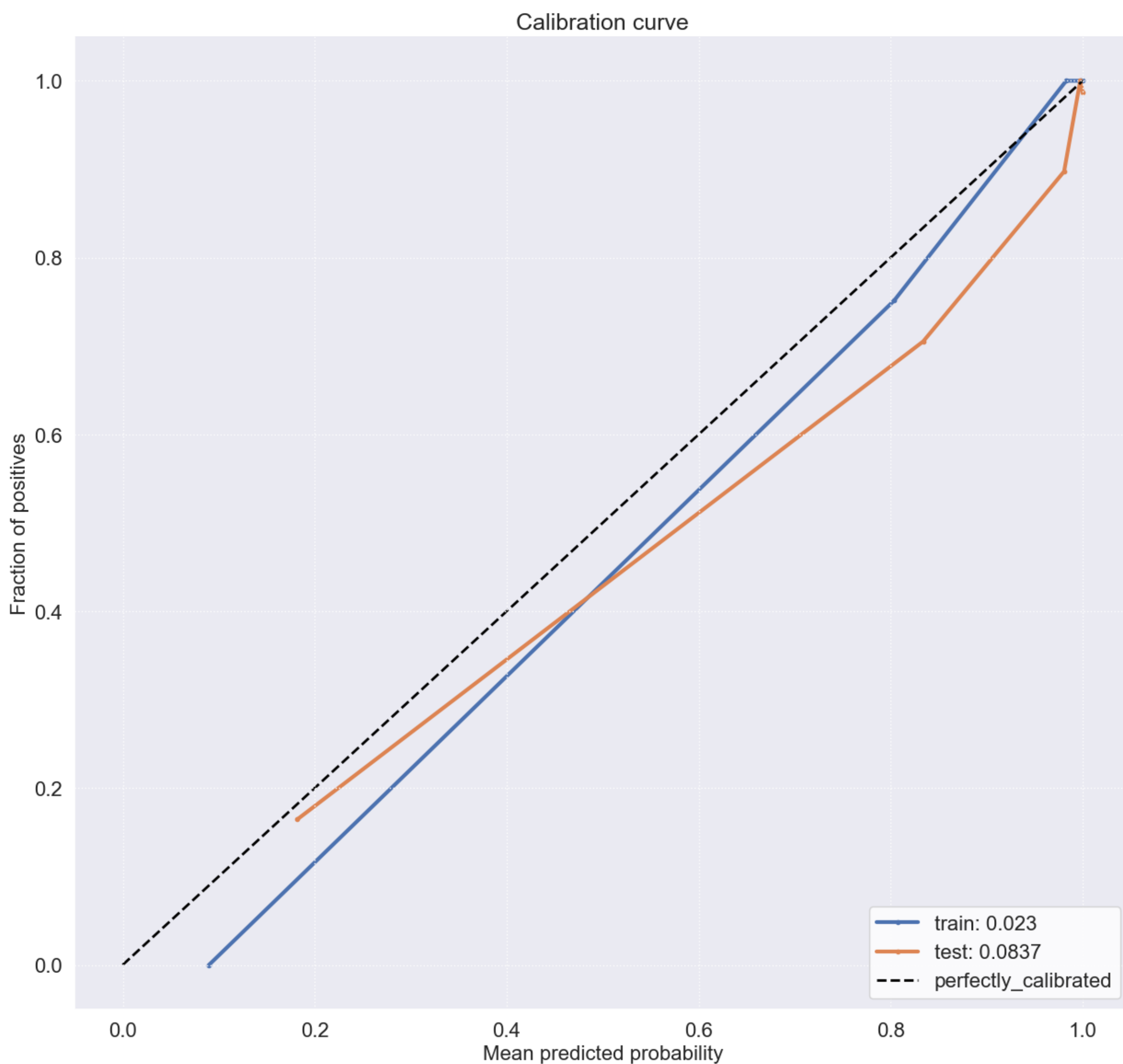
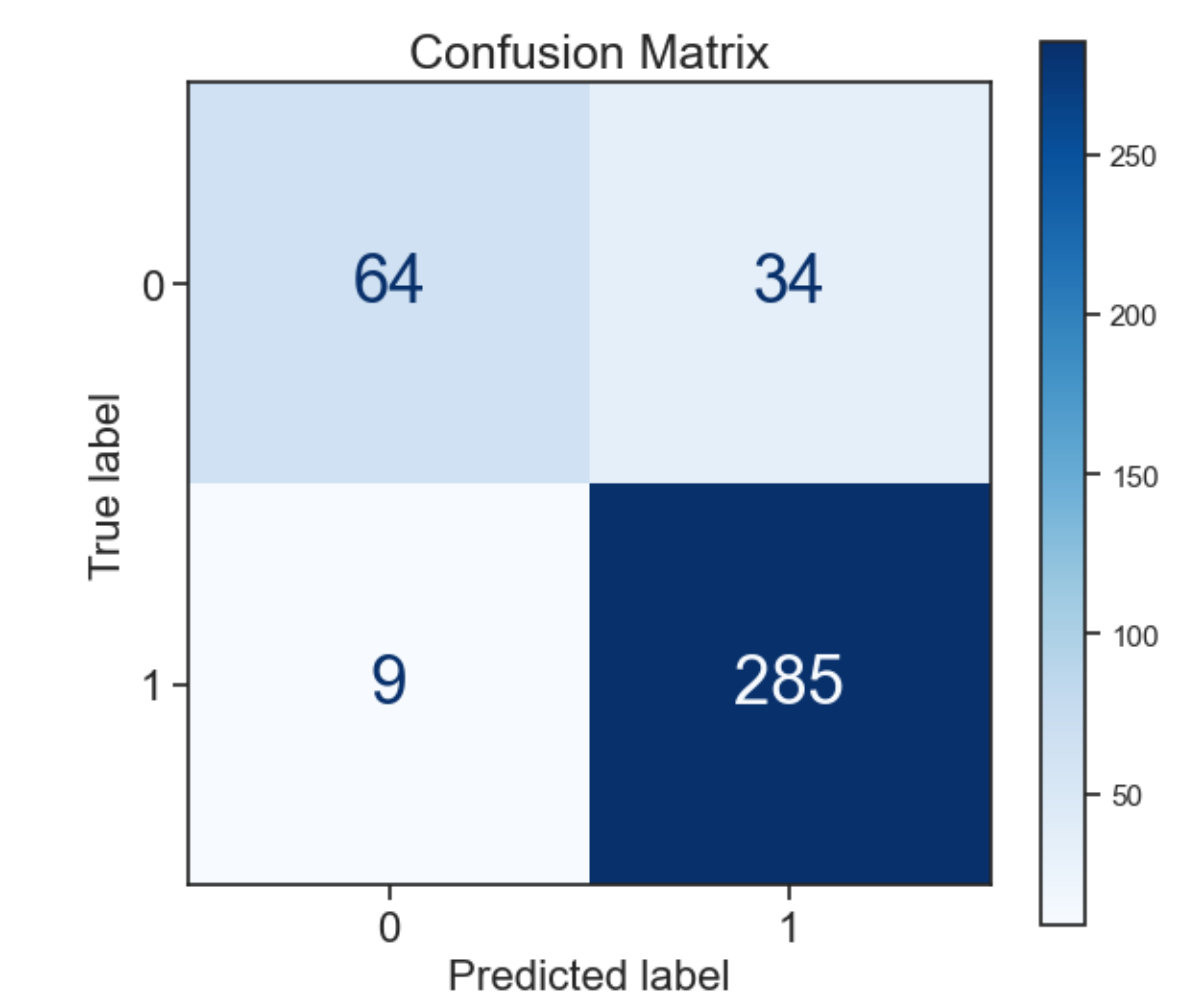


Metric	Train	Test
AUC	0.9993	0.9362
accuracy	0.9879	0.875
balanced accuracy	0.9758	0.7908
recall_(sens)	1.0	0.9592
specificity	0.9517	0.6224
precision	0.9841	0.884
f1_score	0.9878	0.8684

Protein: Q8NER1 - metric: f1

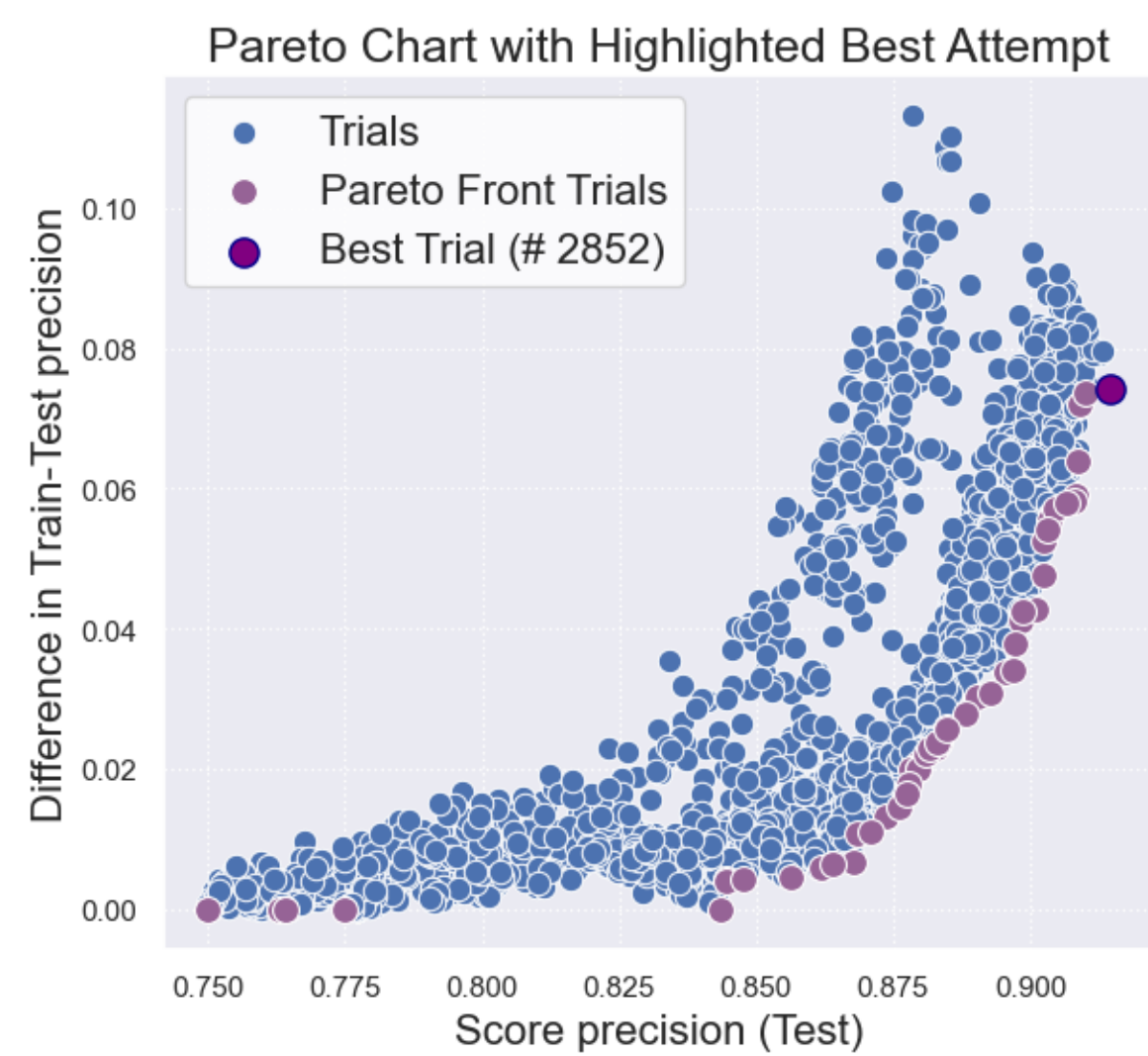
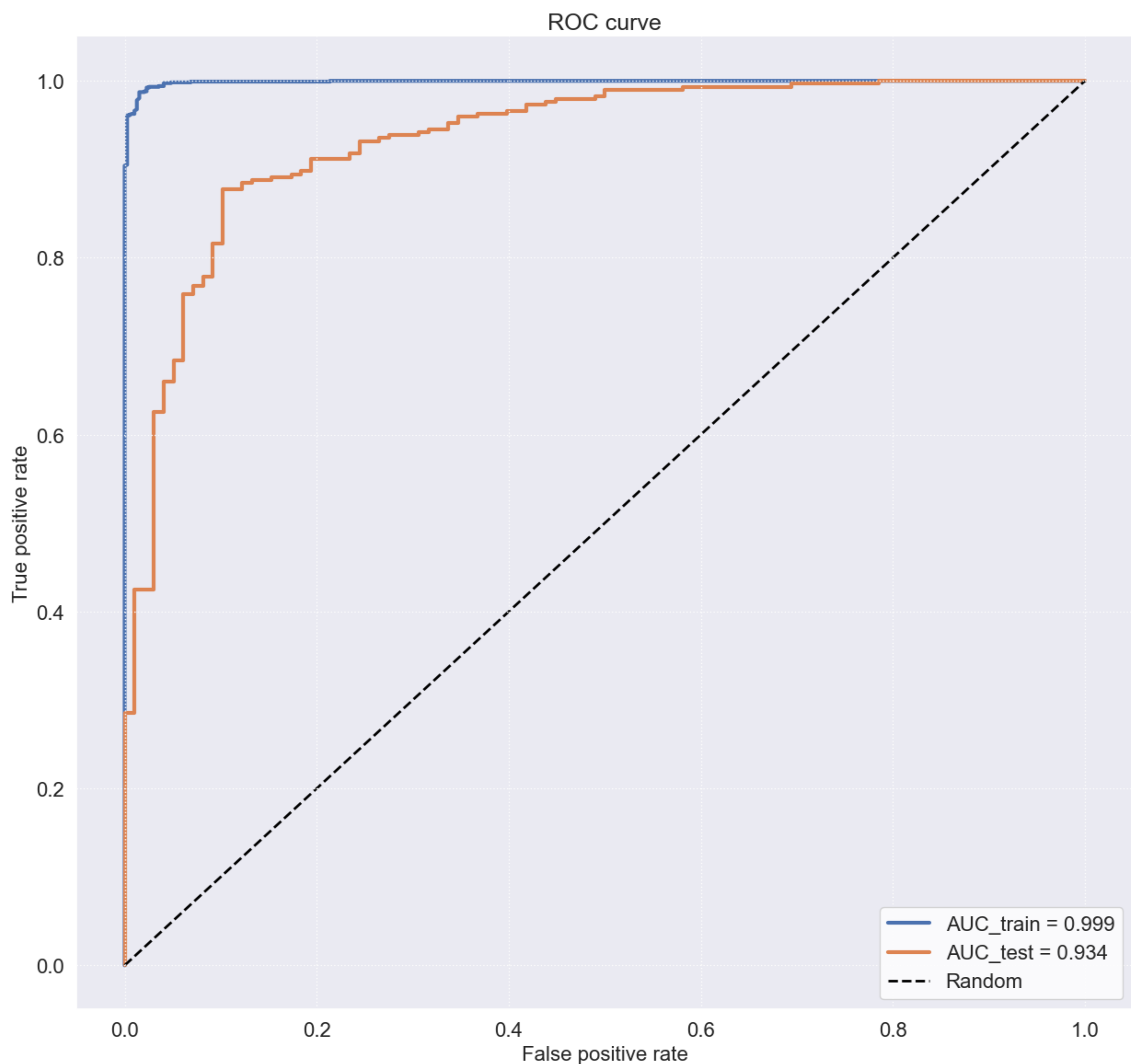
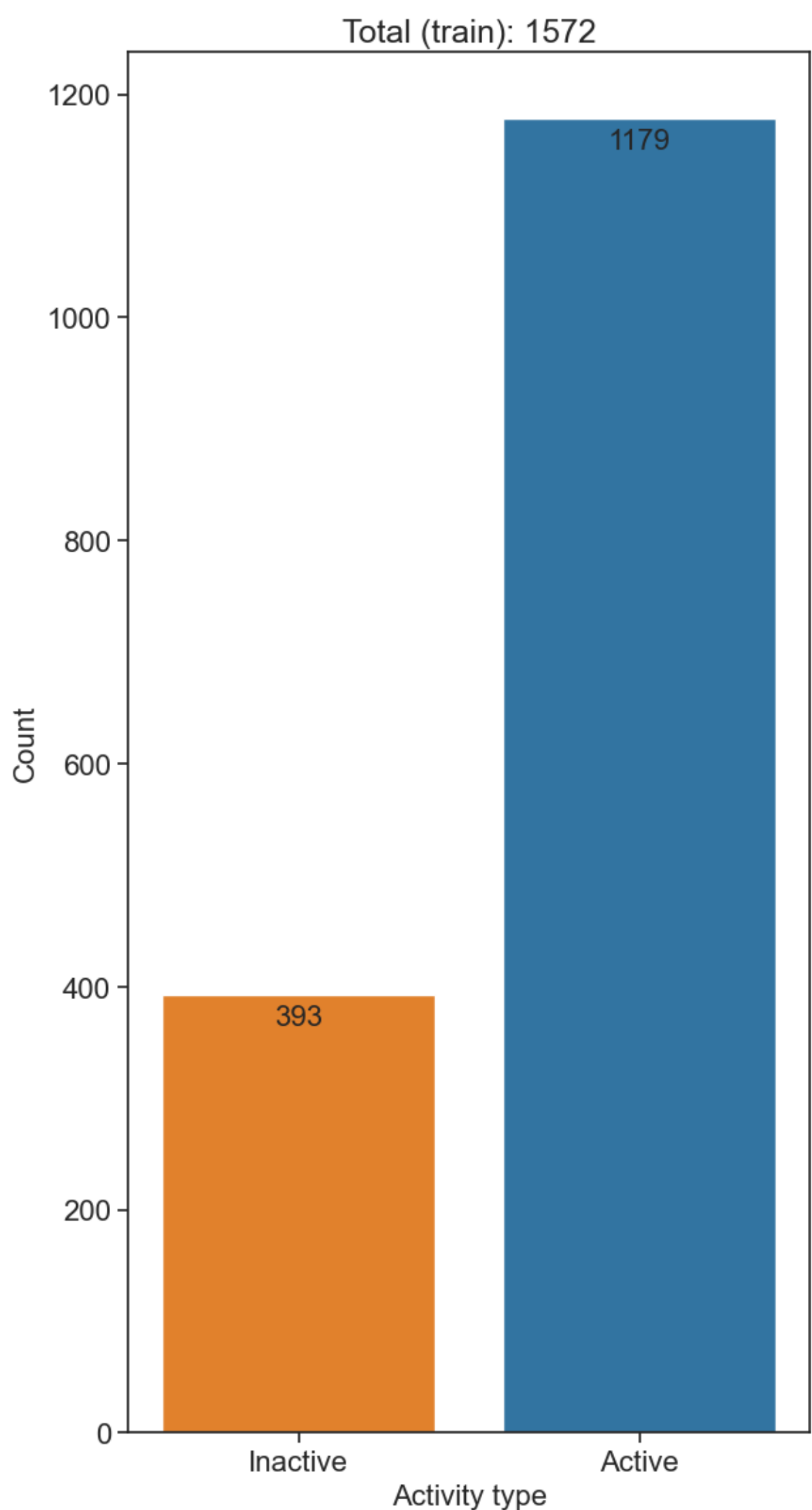


XGBoost Parameters	Value
alpha	0.0694
colsample_bytree	0.5036
gamma	0.2064
lambda	0.884
learning_rate	0.1478
max_depth	3.0
min_child_weight	2.0
n_estimators	765.0
reg_alpha	0.8449
reg_lambda	0.4548
scale_pos_weight	2.1901
subsample	0.7348

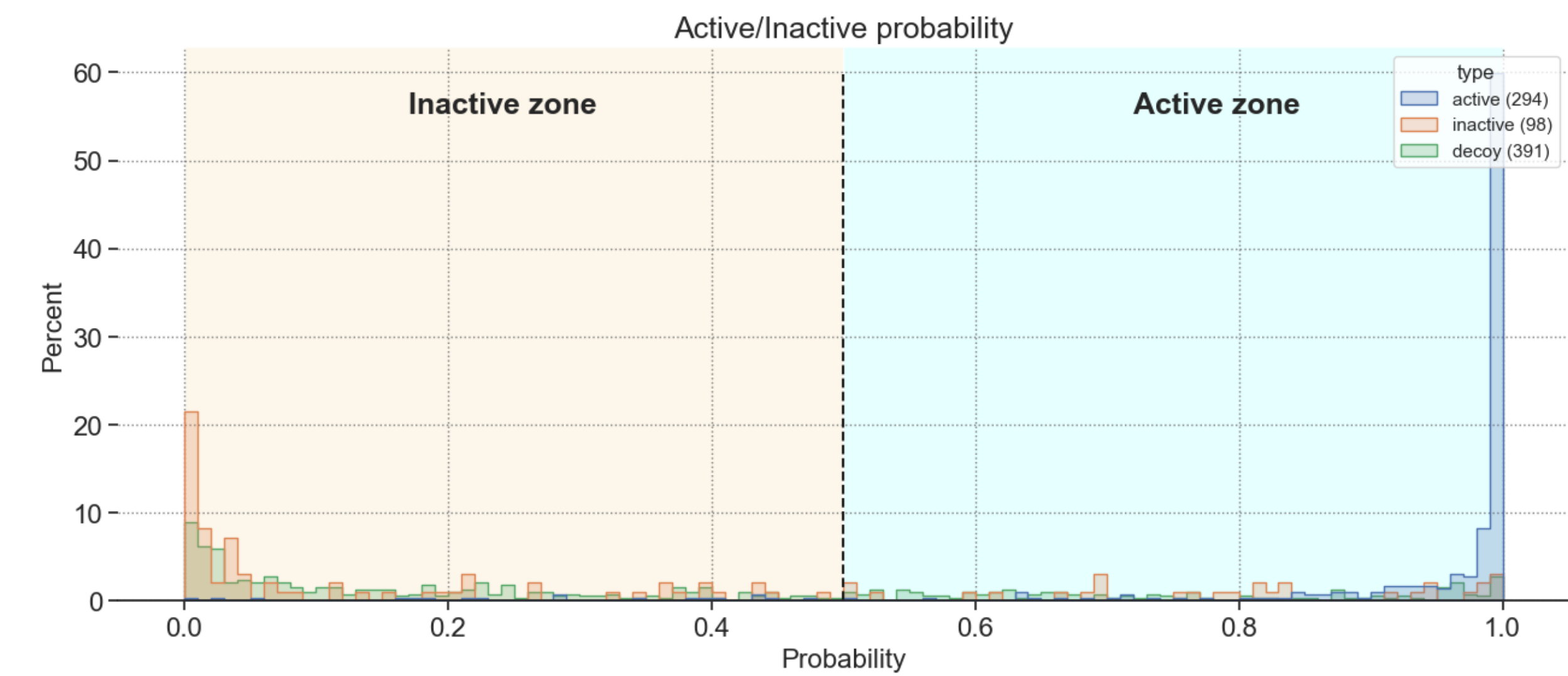
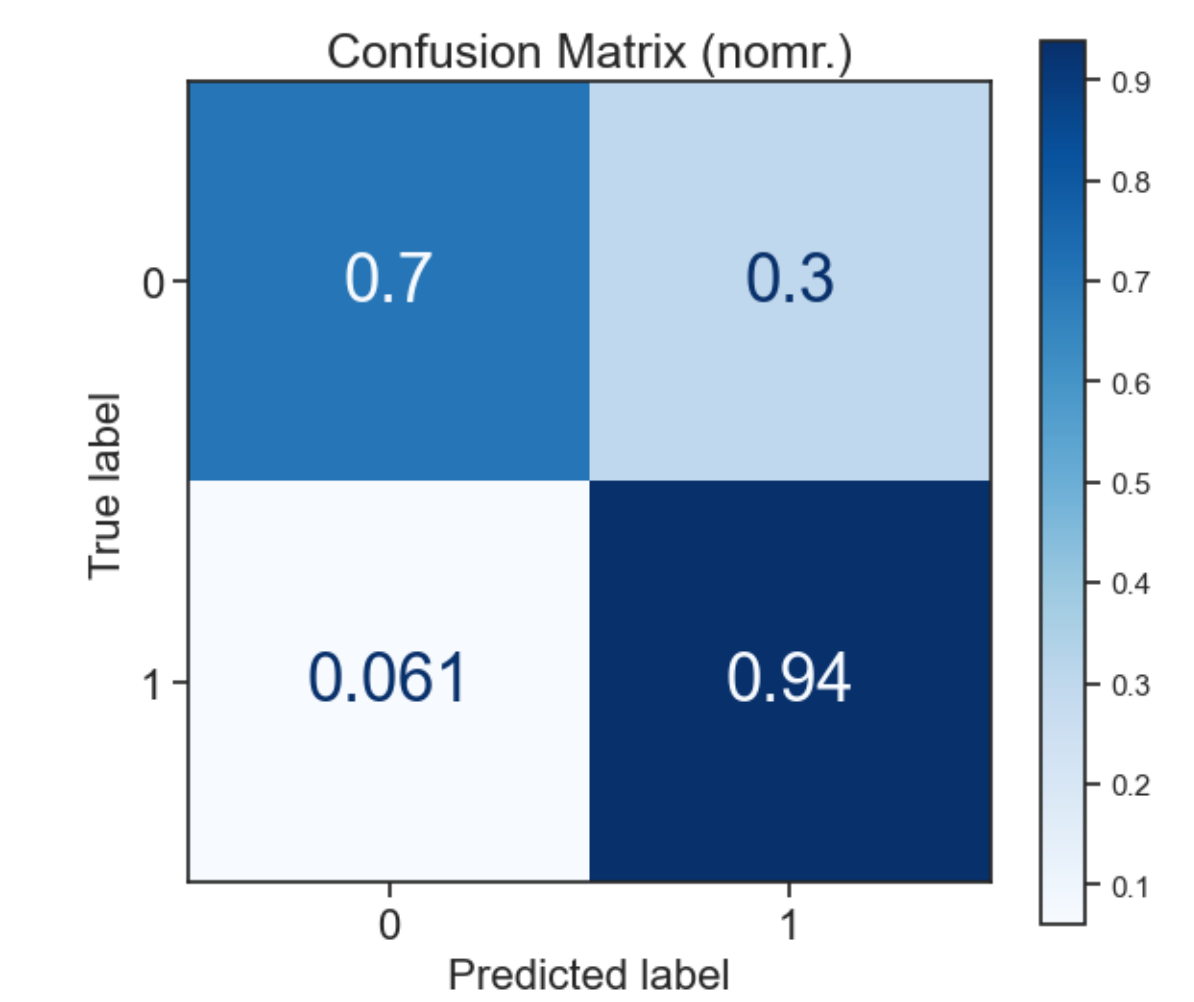
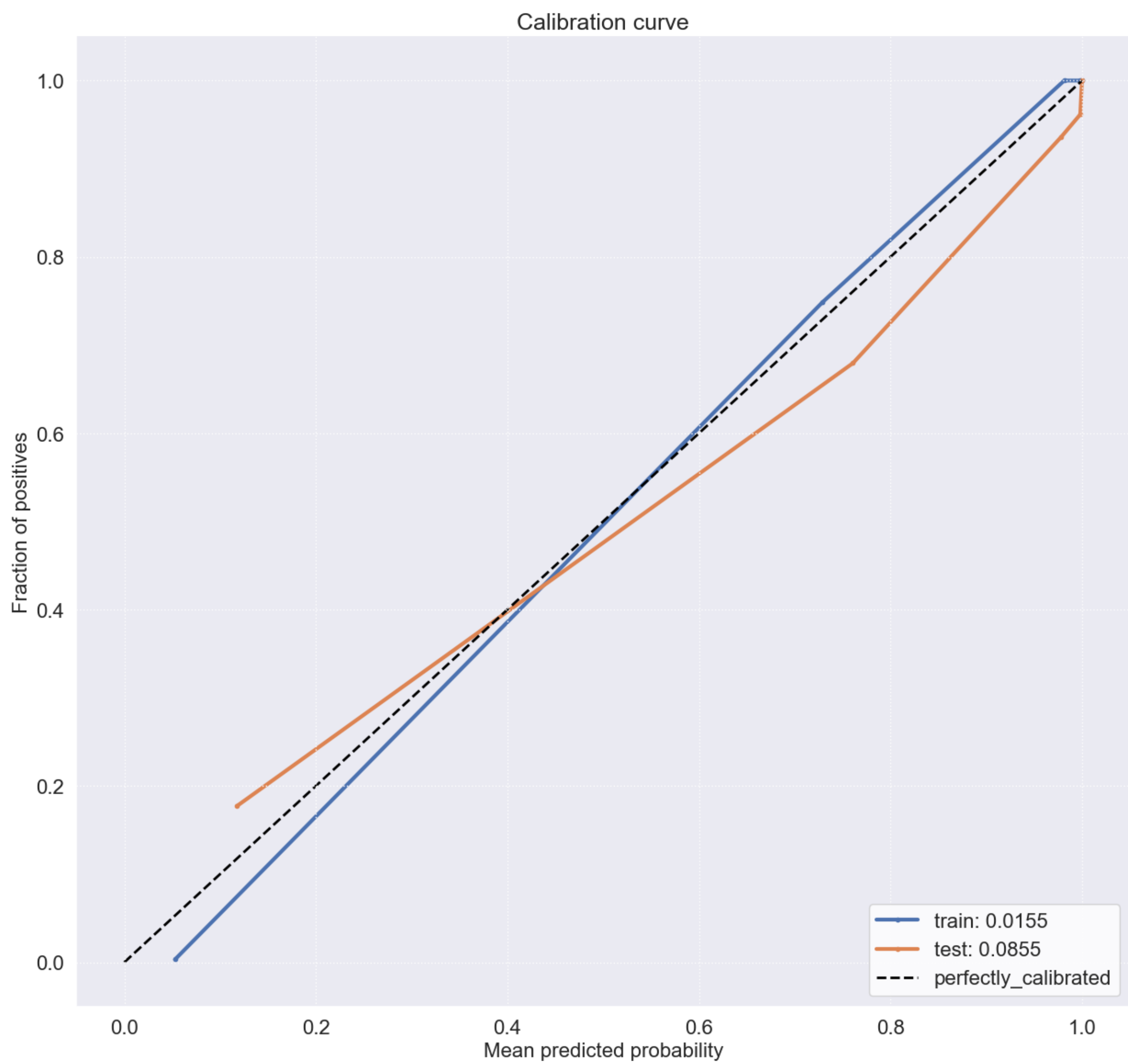
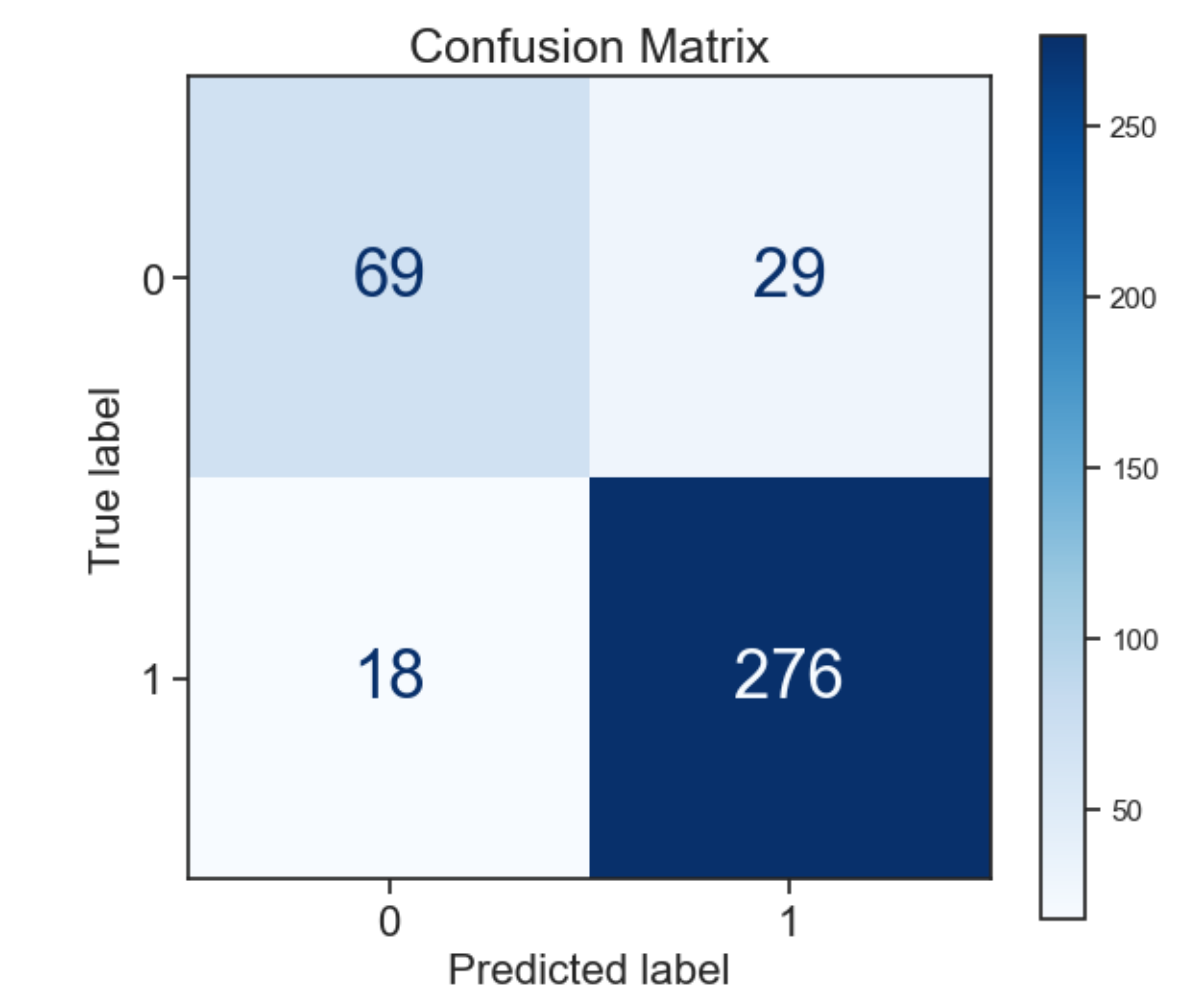


Metric	Train	Test
AUC	0.9977	0.9392
accuracy	0.9746	0.8903
balanced accuracy	0.9508	0.8112
recall_(sens)	0.9983	0.9694
specificity	0.9033	0.6531
precision	0.9687	0.8934
f1_score	0.9741	0.8845

Protein: Q8NER1 - metric: precision

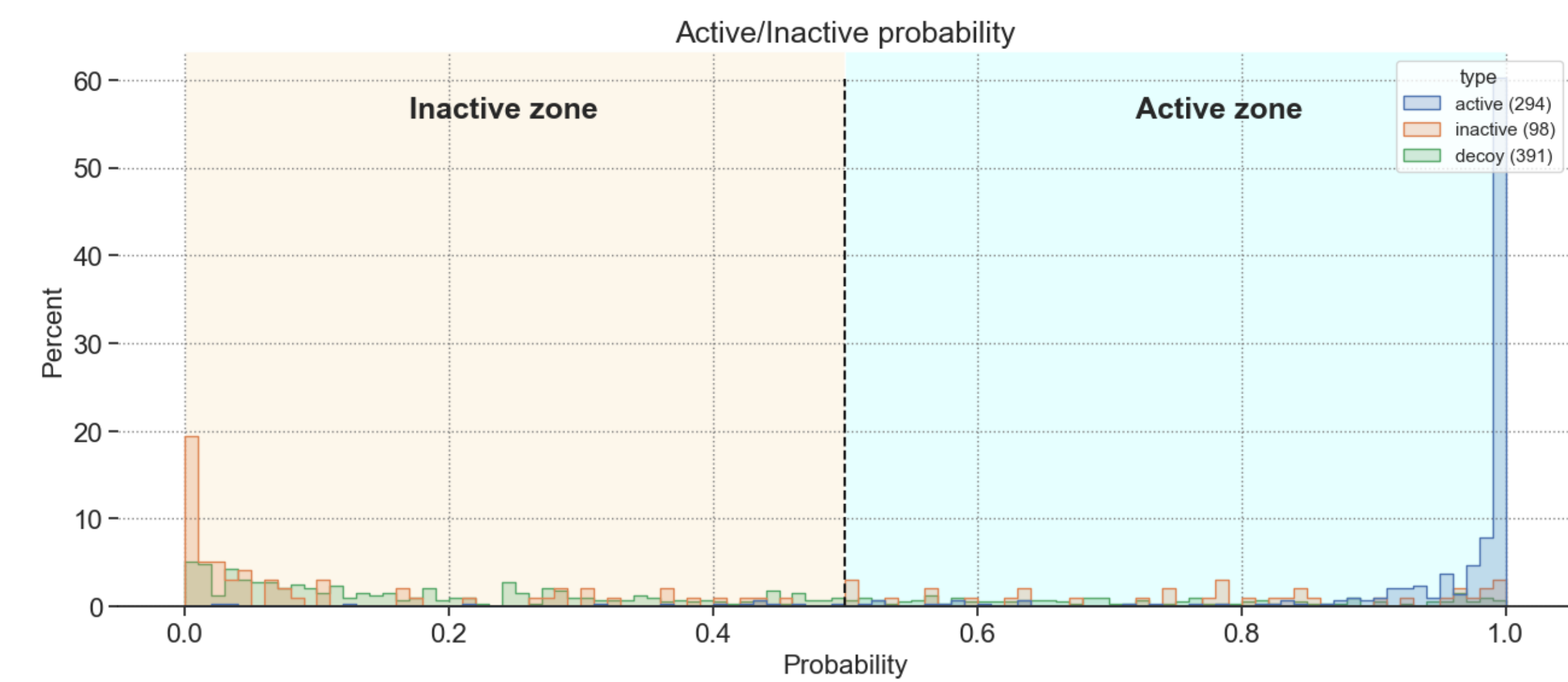
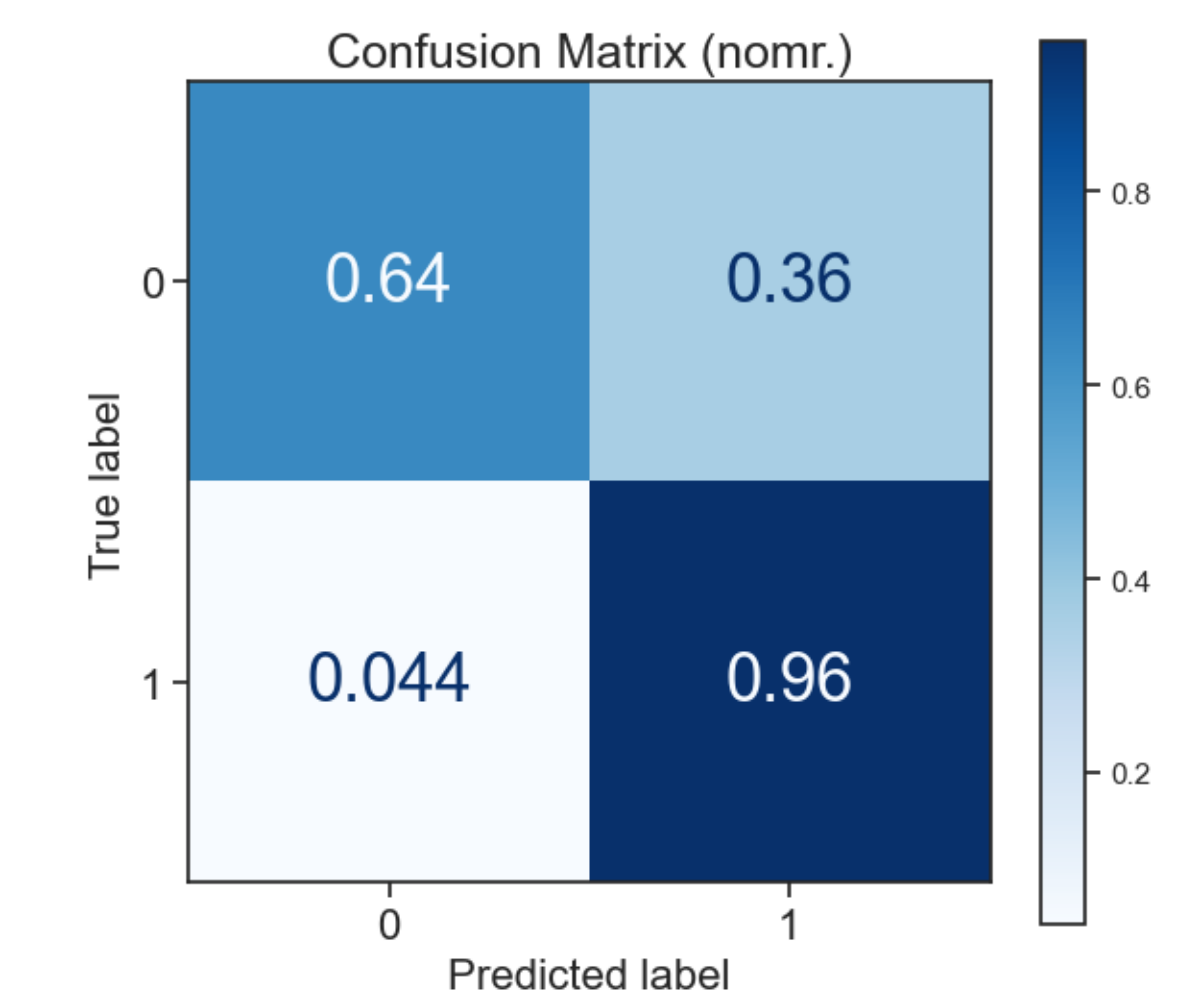
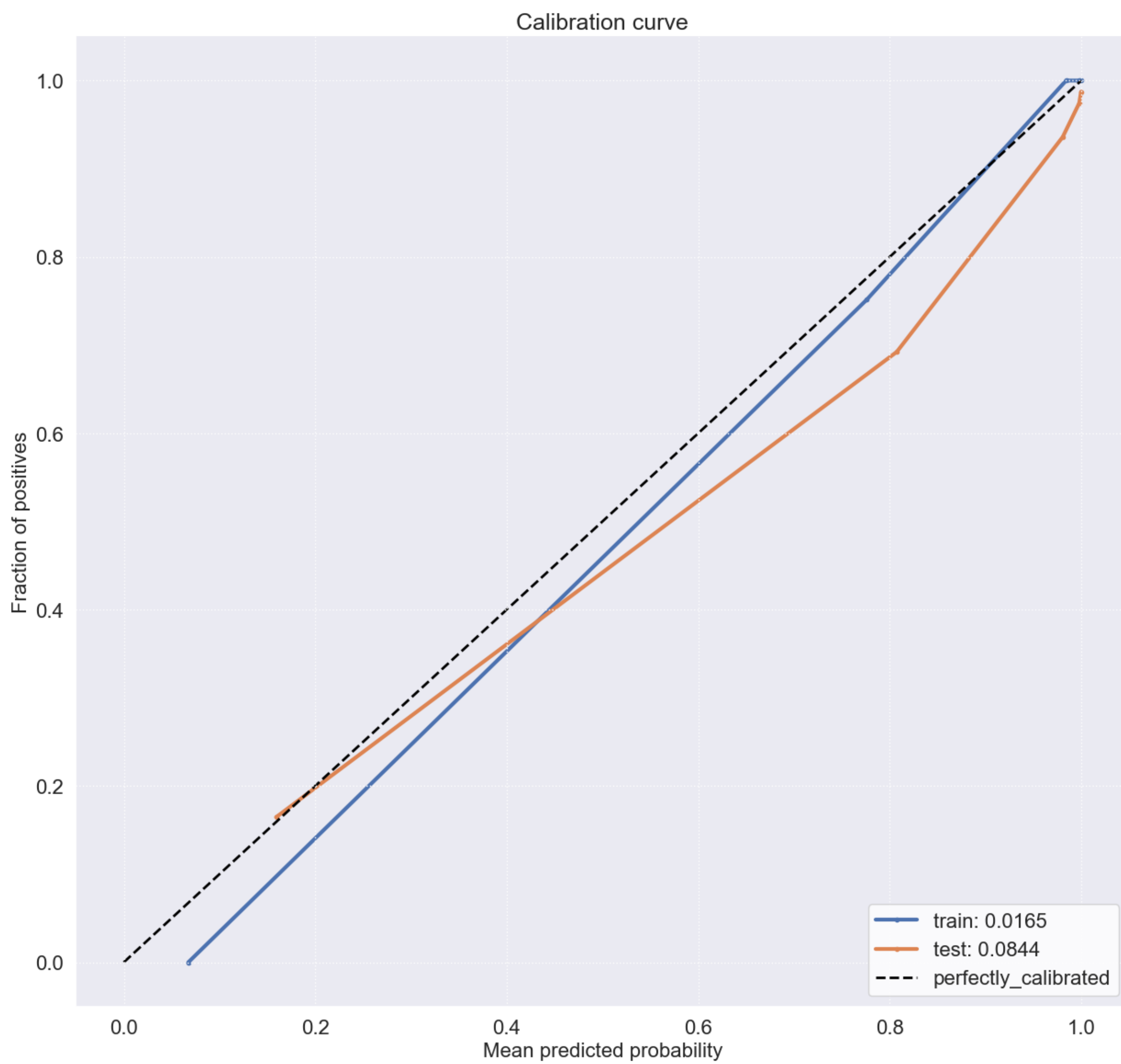
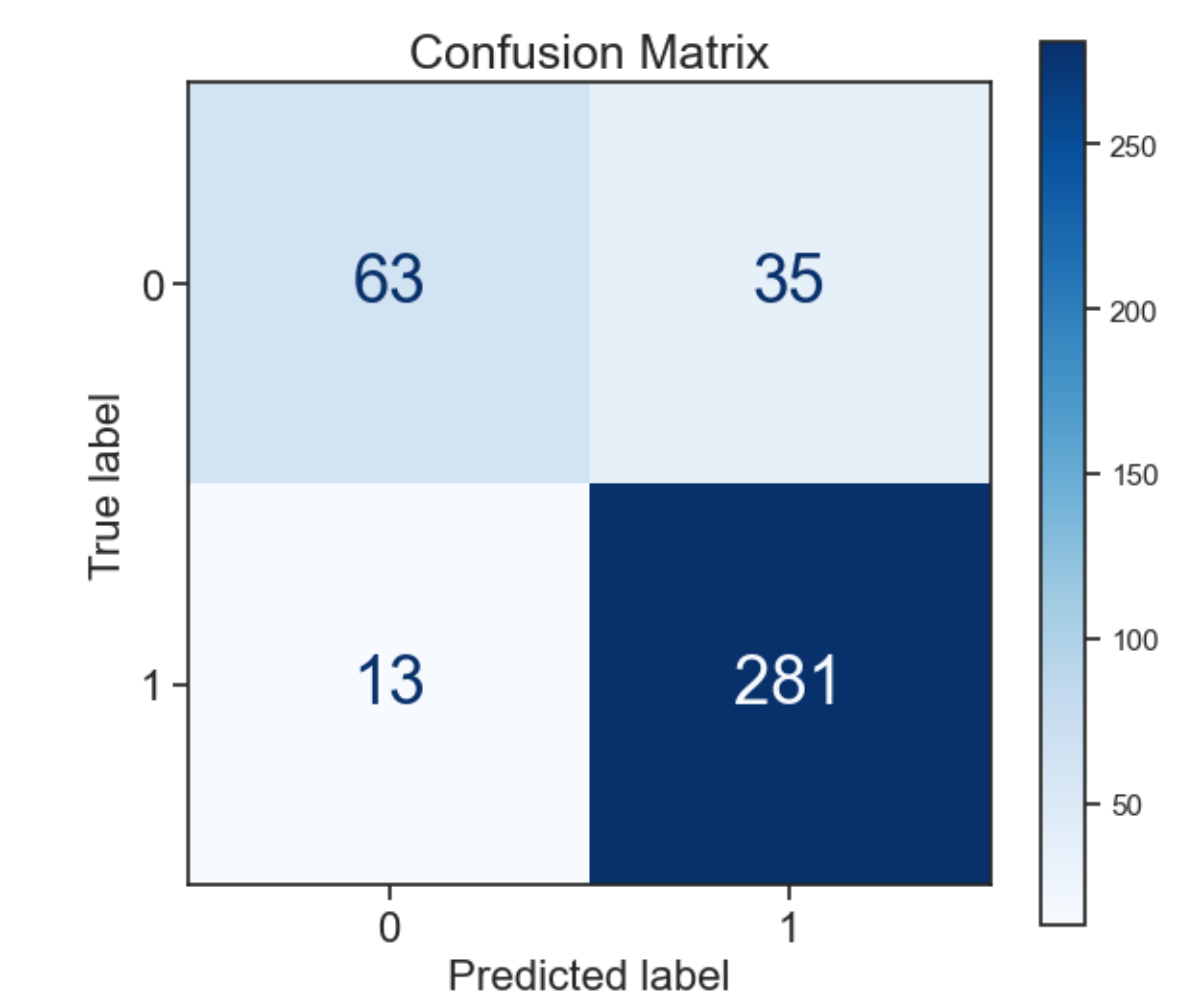
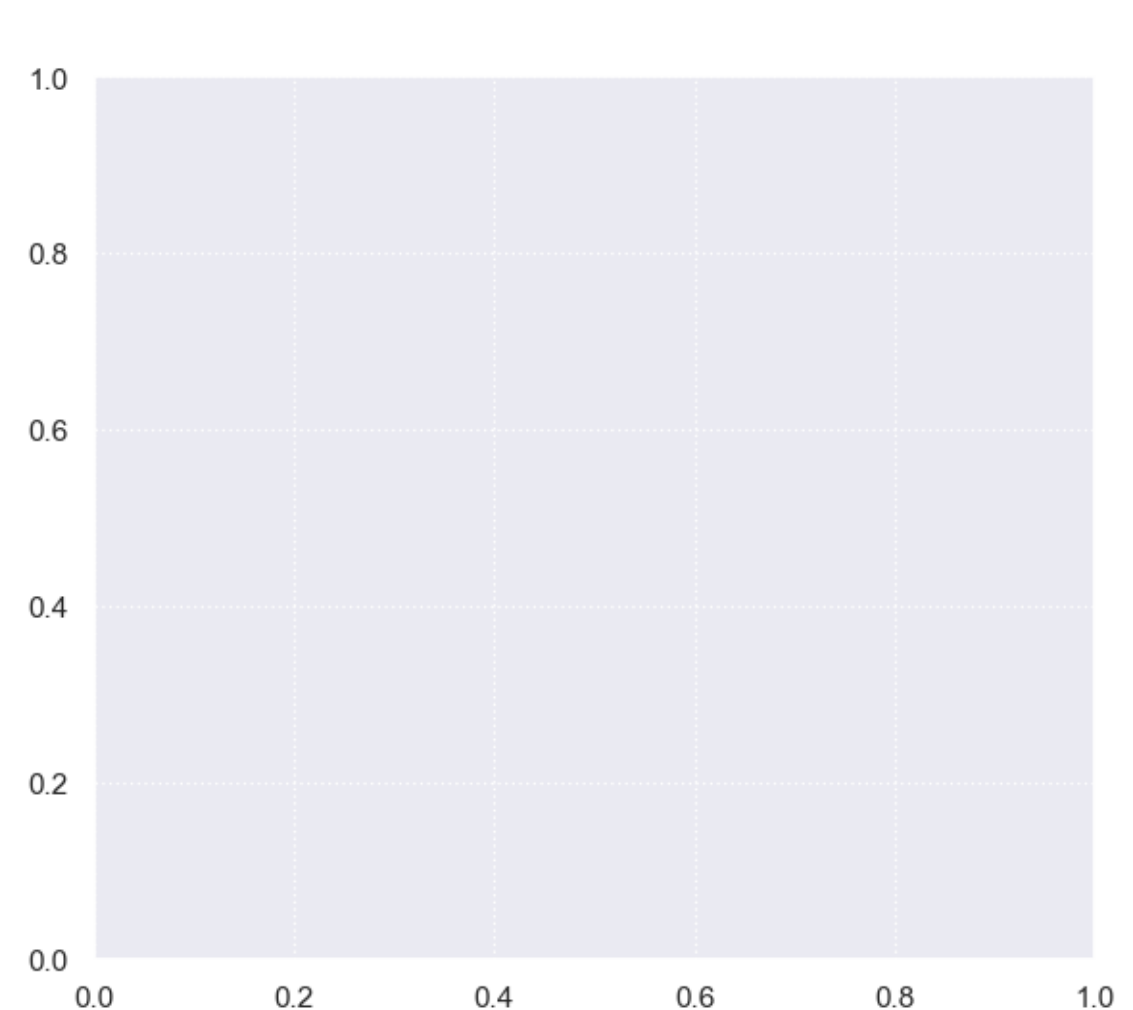
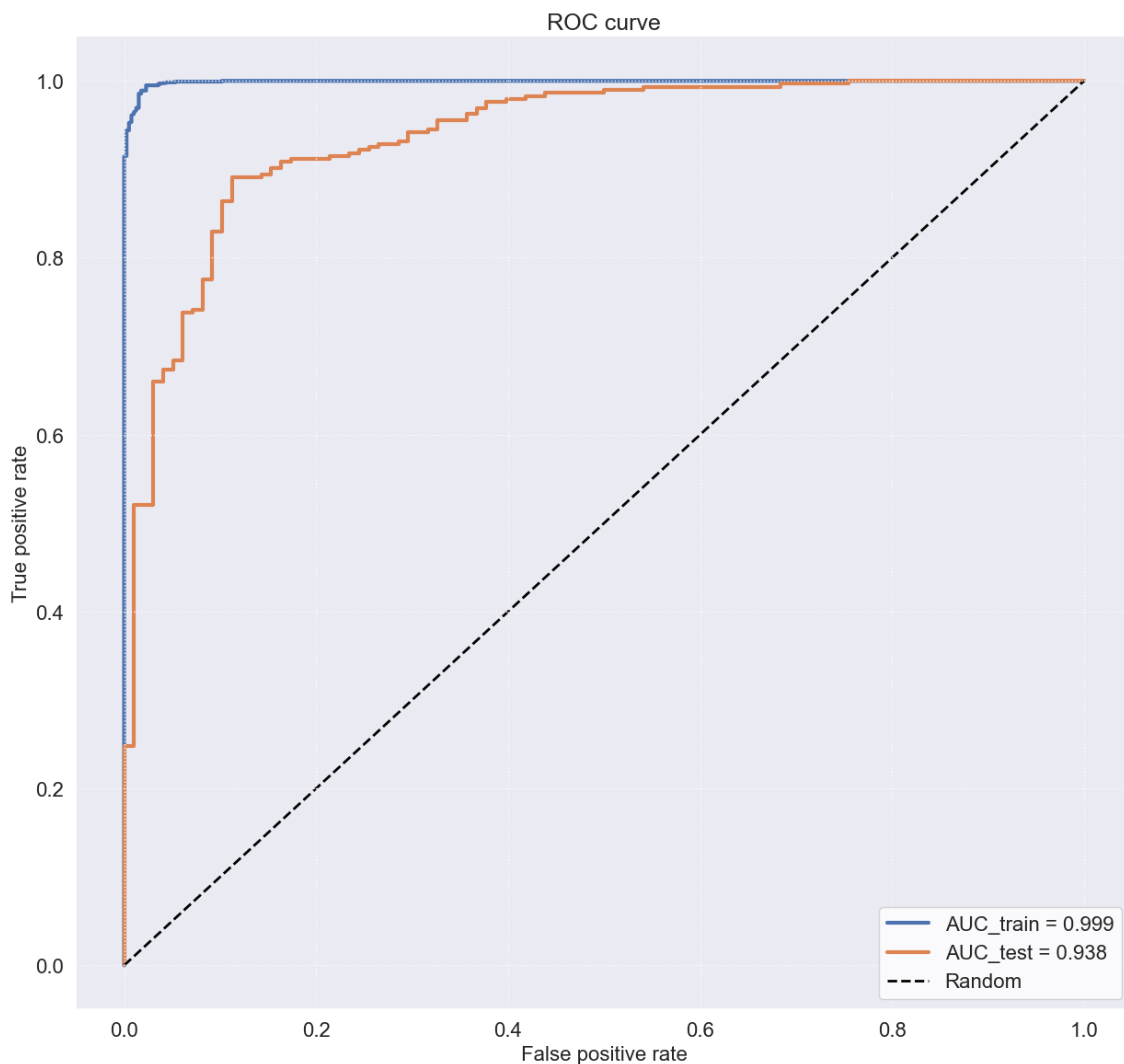
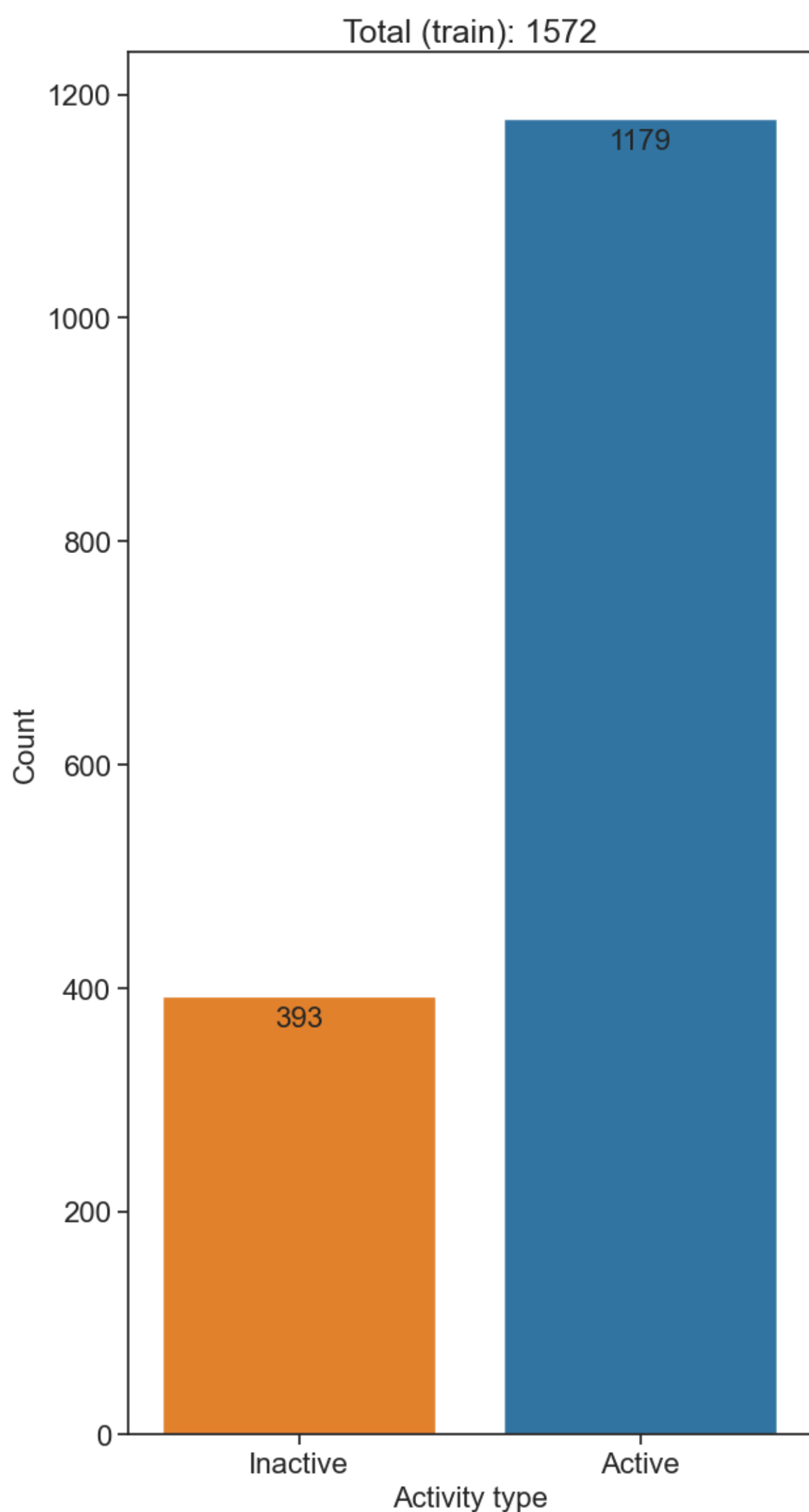


XGBoost Parameters	Value
alpha	2.0487
colsample_bytree	0.5833
gamma	0.3573
lambda	3.9565
learning_rate	0.3353
max_depth	5.0
min_child_weight	3.0
n_estimators	677.0
reg_alpha	0.2368
reg_lambda	0.6842
scale_pos_weight	1.0591
subsample	0.8436



Metric	Train	Test
AUC	0.9989	0.9343
accuracy	0.986	0.8801
balanced accuracy	0.9779	0.8214
recall_(sens)	0.9941	0.9388
specificity	0.9618	0.7041
precision	0.9874	0.9049
f1_score	0.986	0.8776

Protein: Q8NER1 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.999	0.938
accuracy	0.9841	0.8776
balanced accuracy	0.969	0.7993
recall_(sens)	0.9992	0.9558
specificity	0.9389	0.6429
precision	0.98	0.8892
f1_score	0.9839	0.872