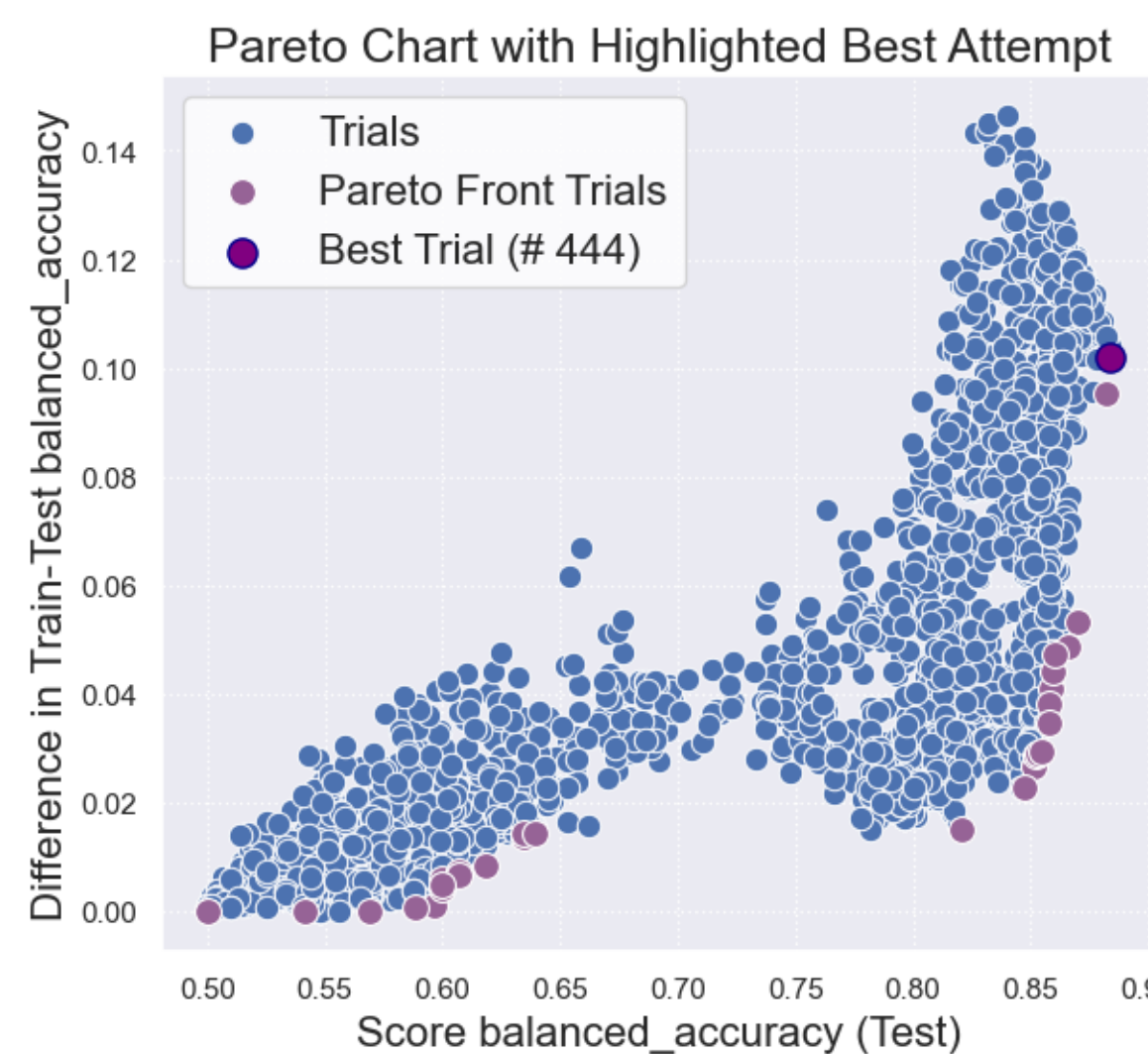
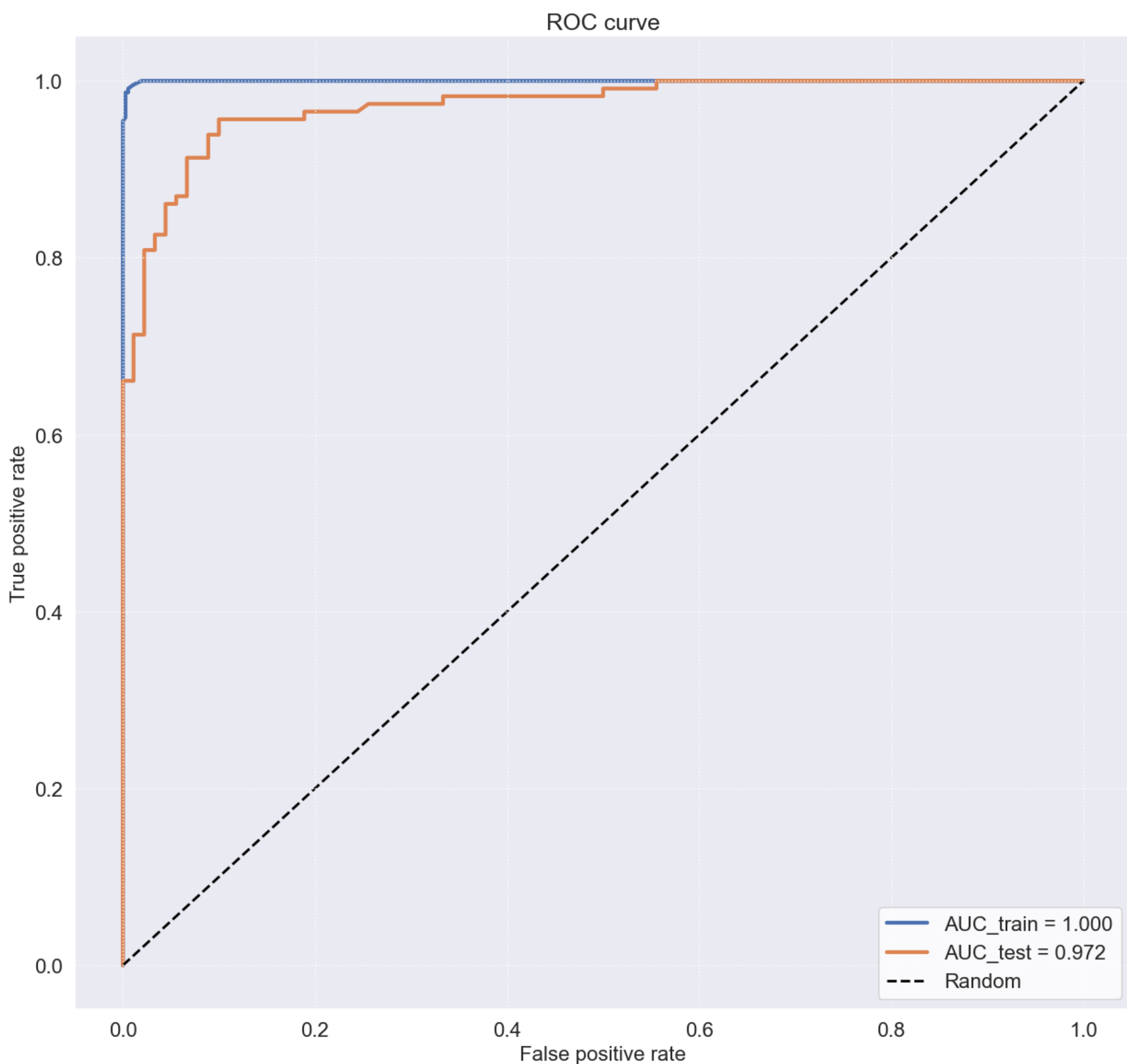
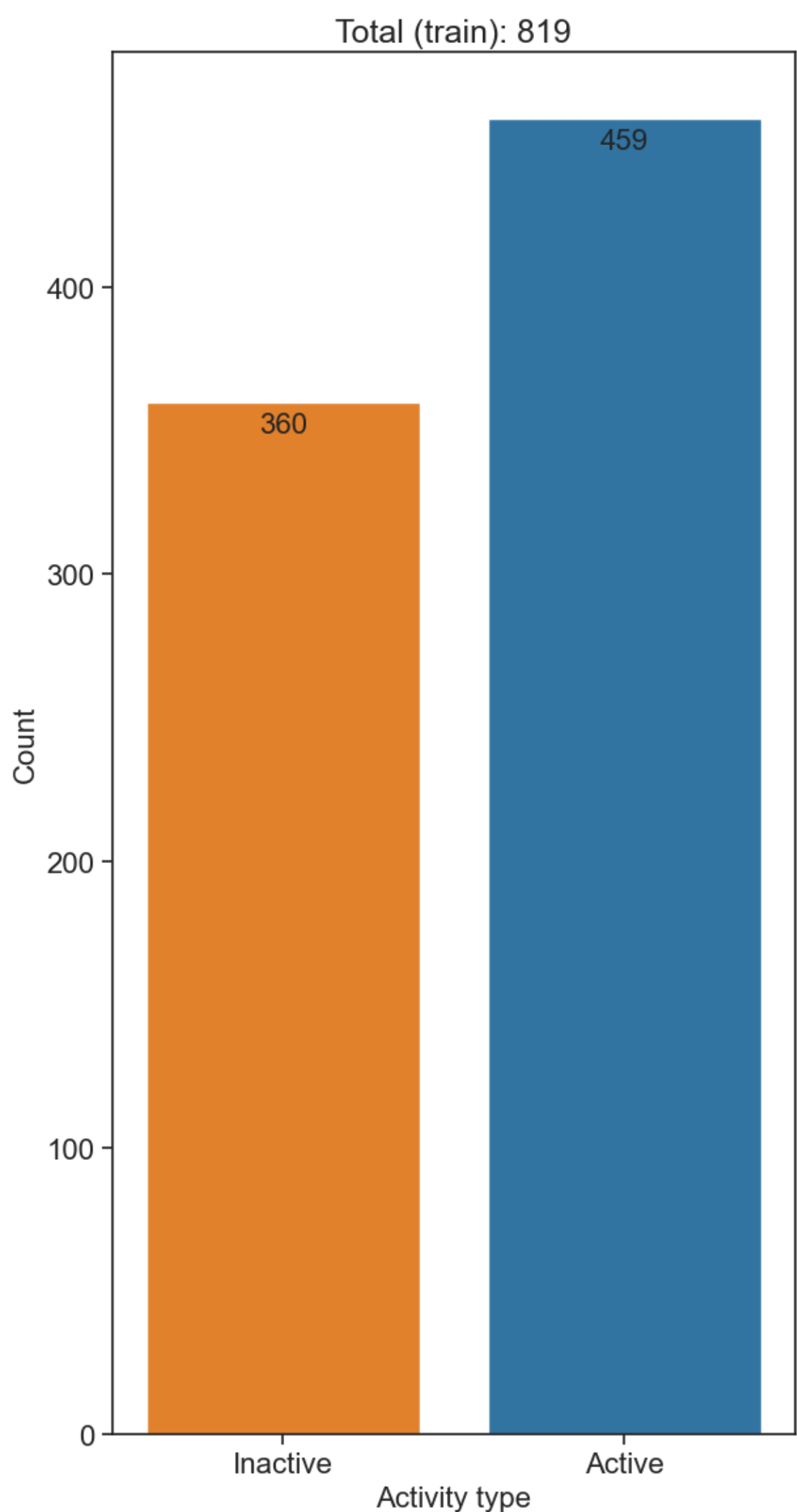
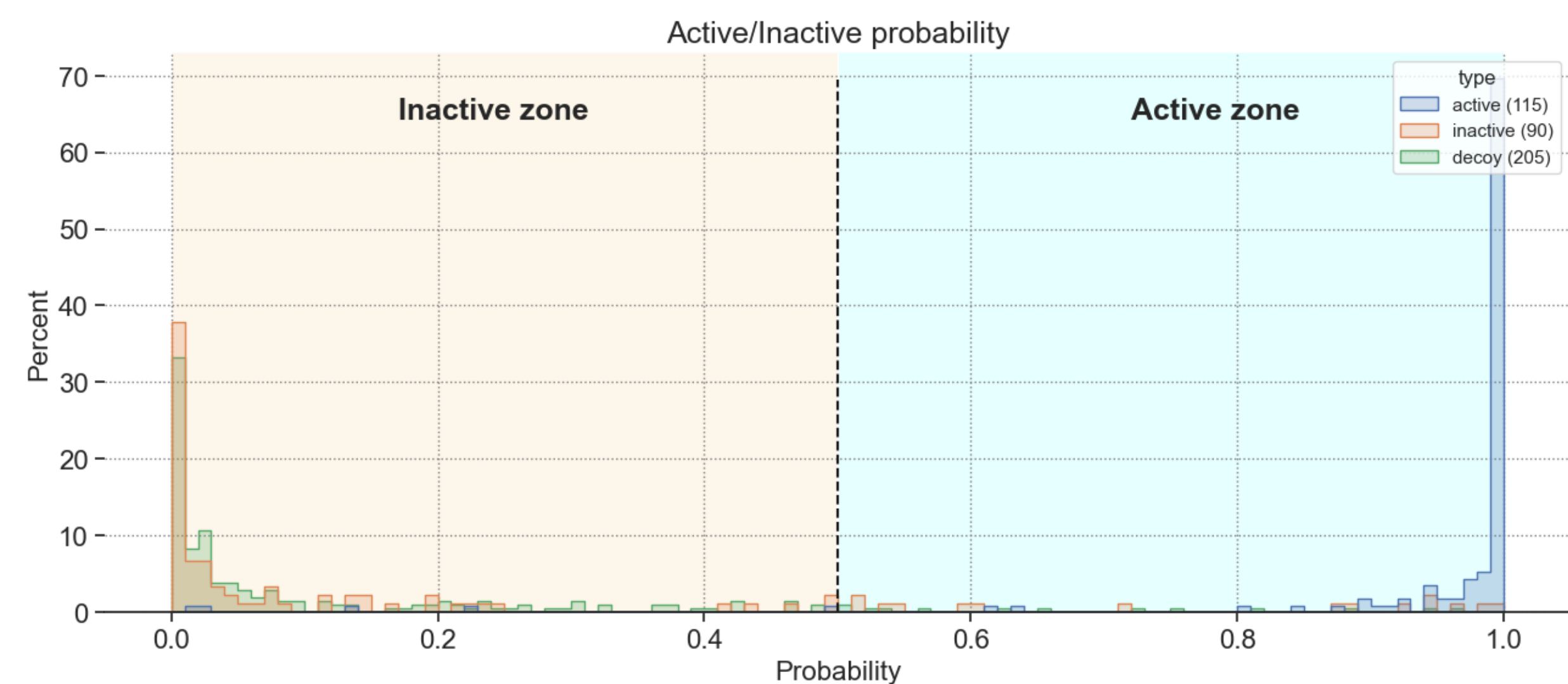
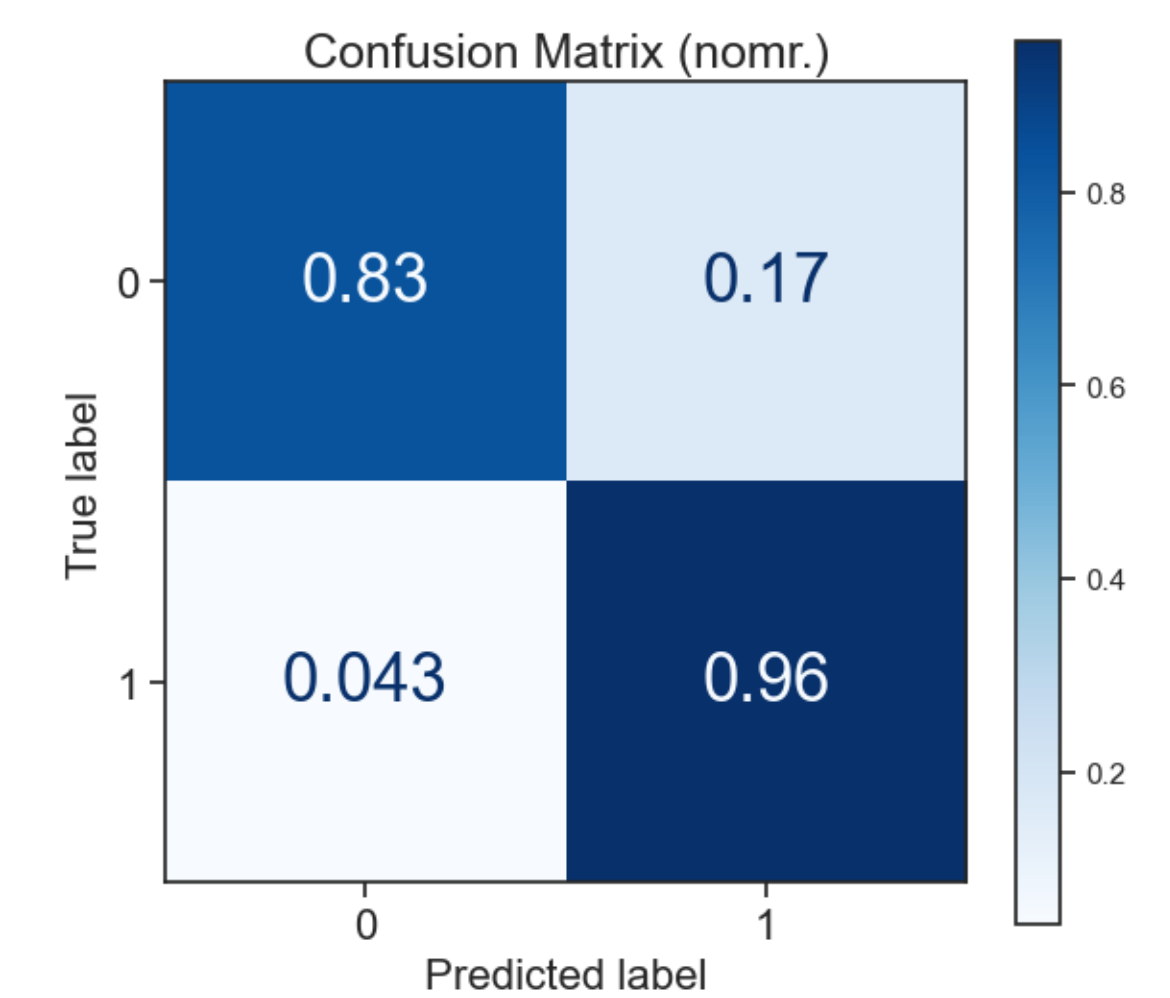
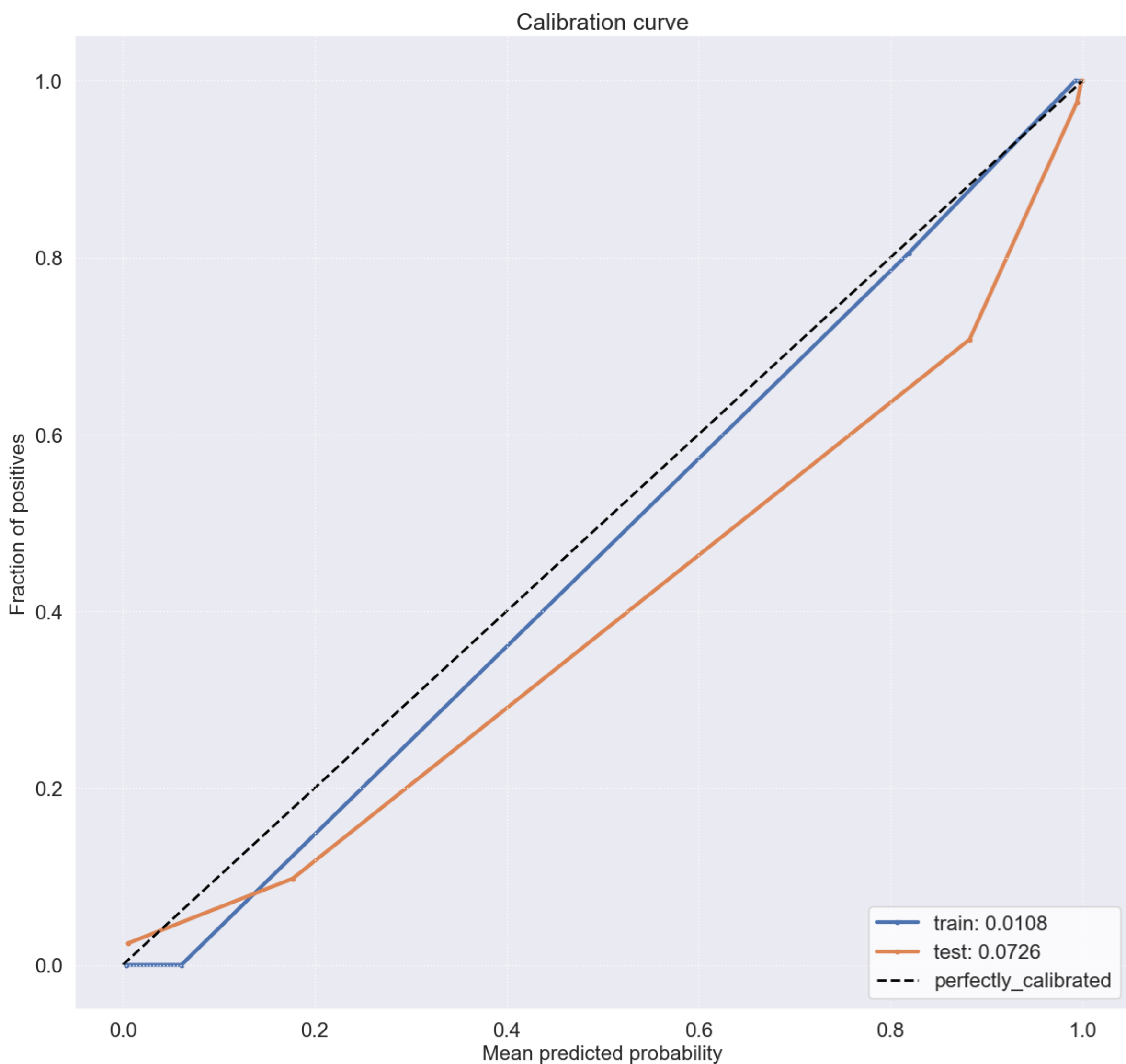
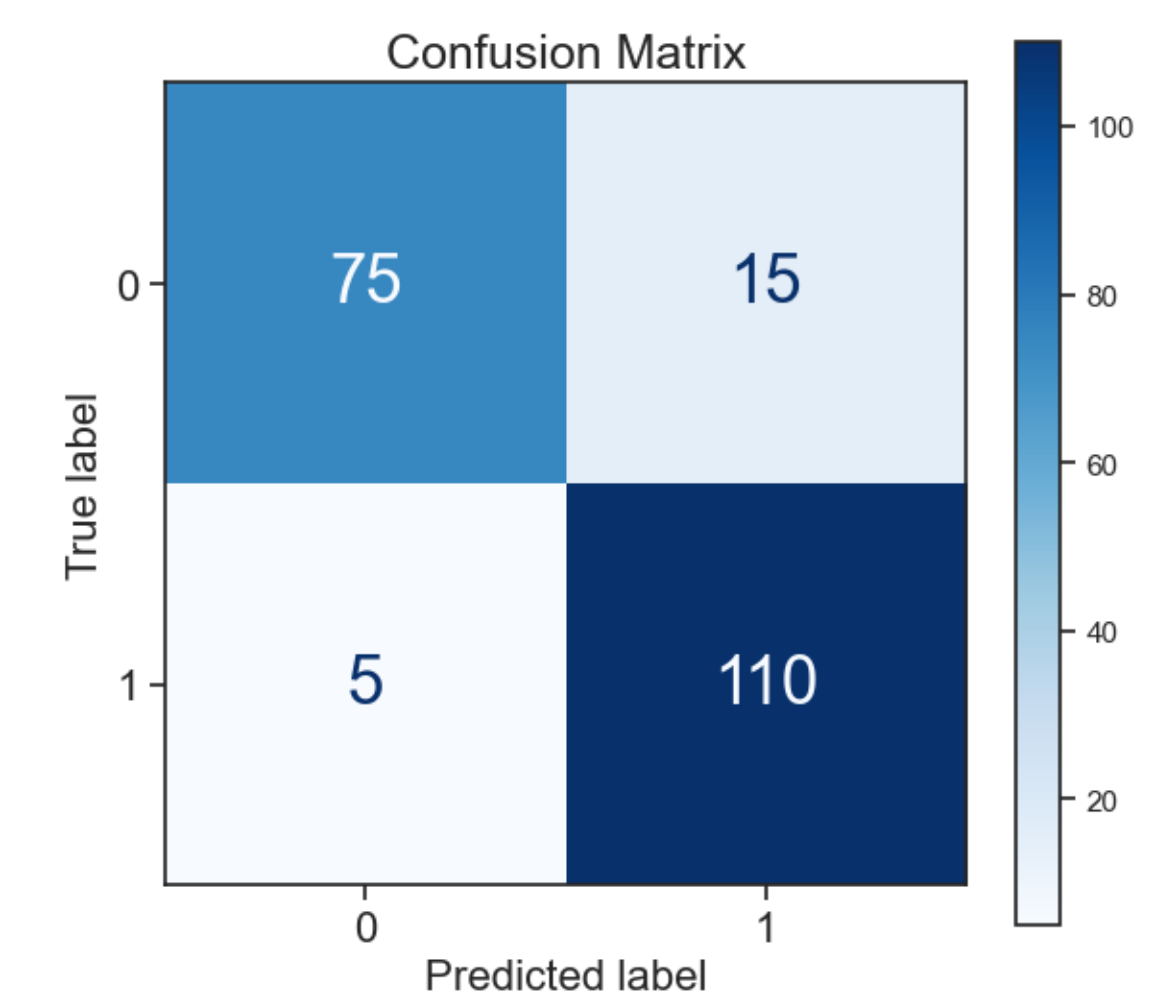


Protein: P13945 - metric: balanced_accuracy

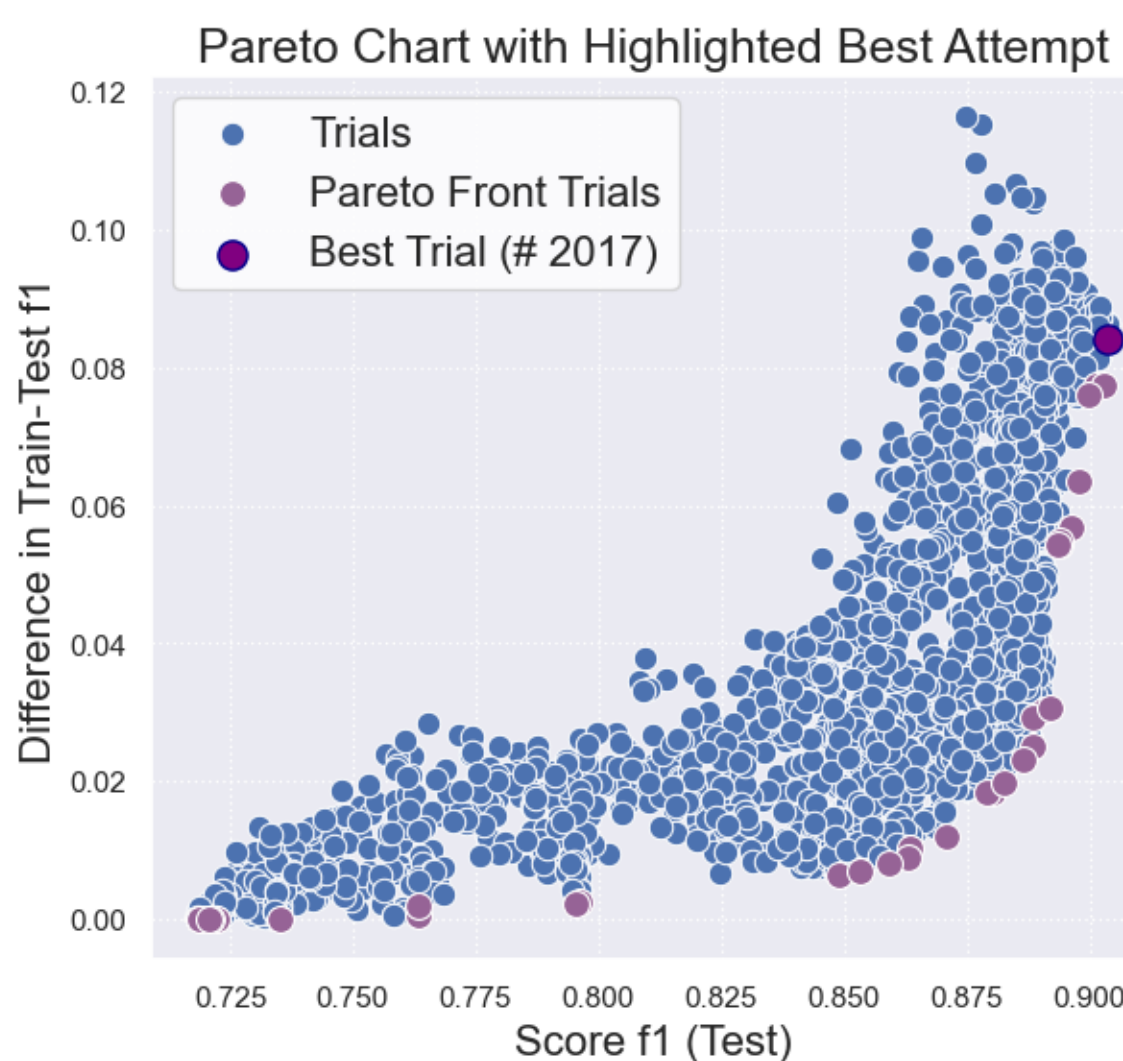
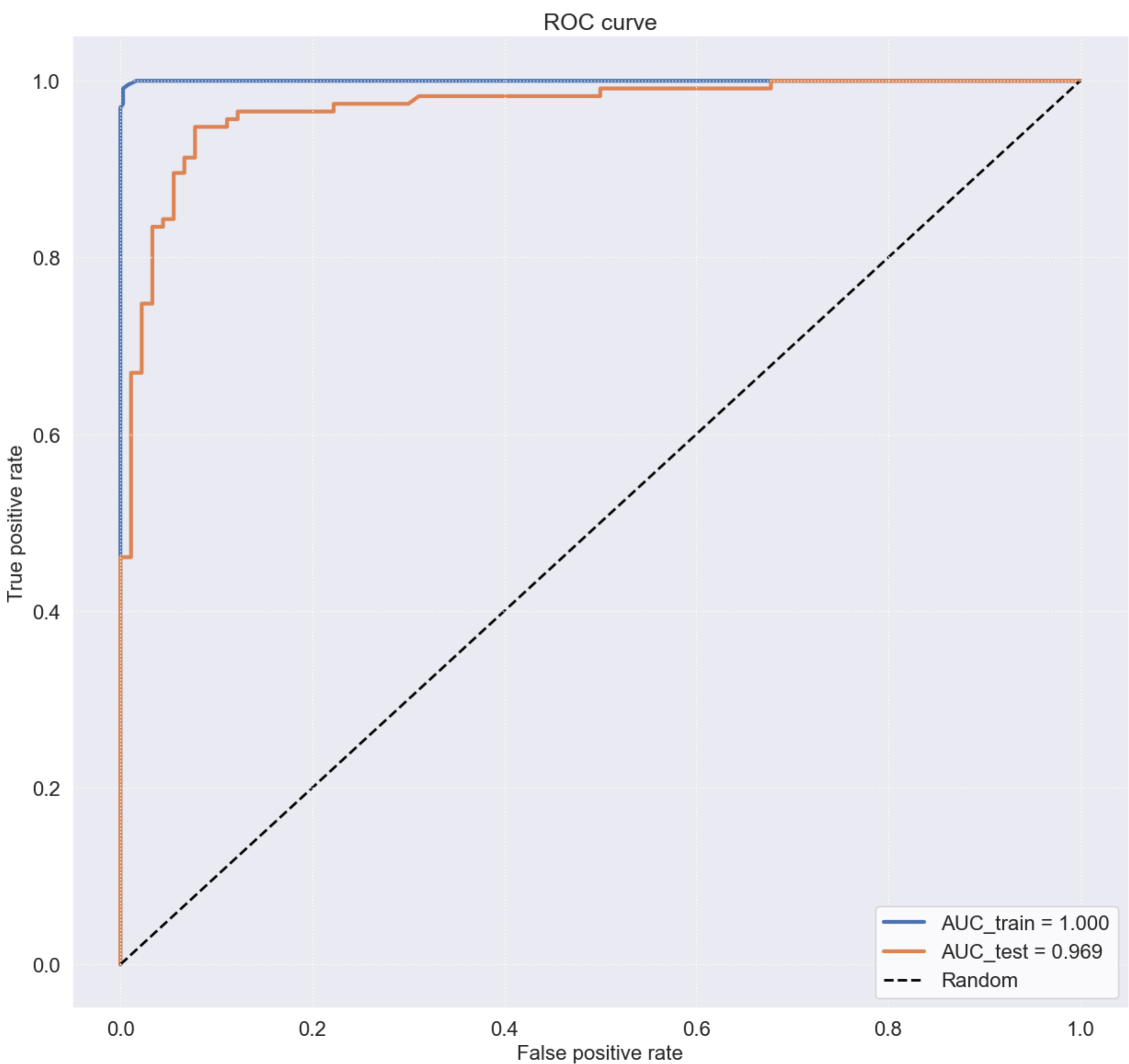
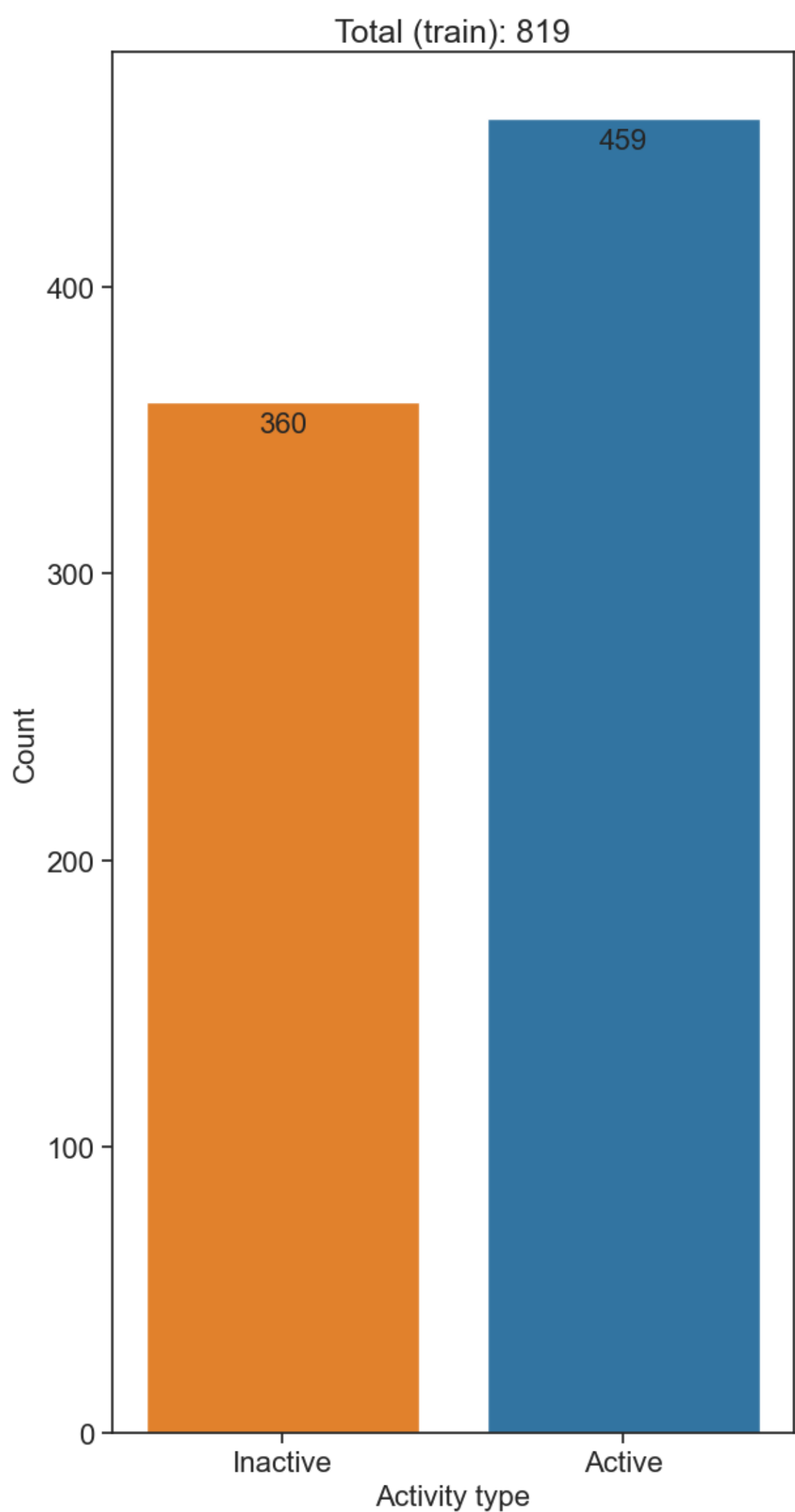


XGBoost Parameters	Value
alpha	1.1531
colsample_bytree	0.5625
gamma	0.1528
lambda	0.485
learning_rate	0.1793
max_depth	7.0
min_child_weight	2.0
n_estimators	718.0
reg_alpha	0.7789
reg_lambda	0.0849
scale_pos_weight	1.9434
subsample	0.6707

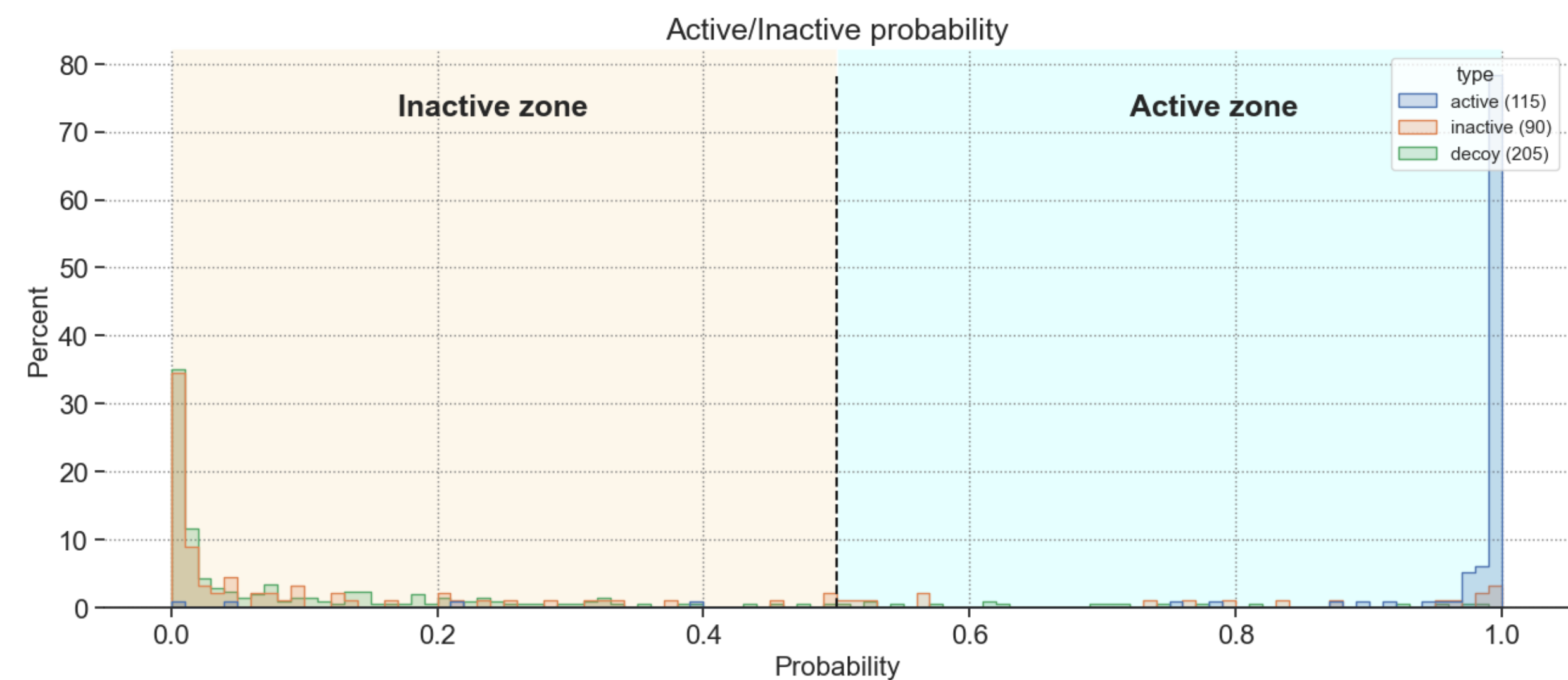
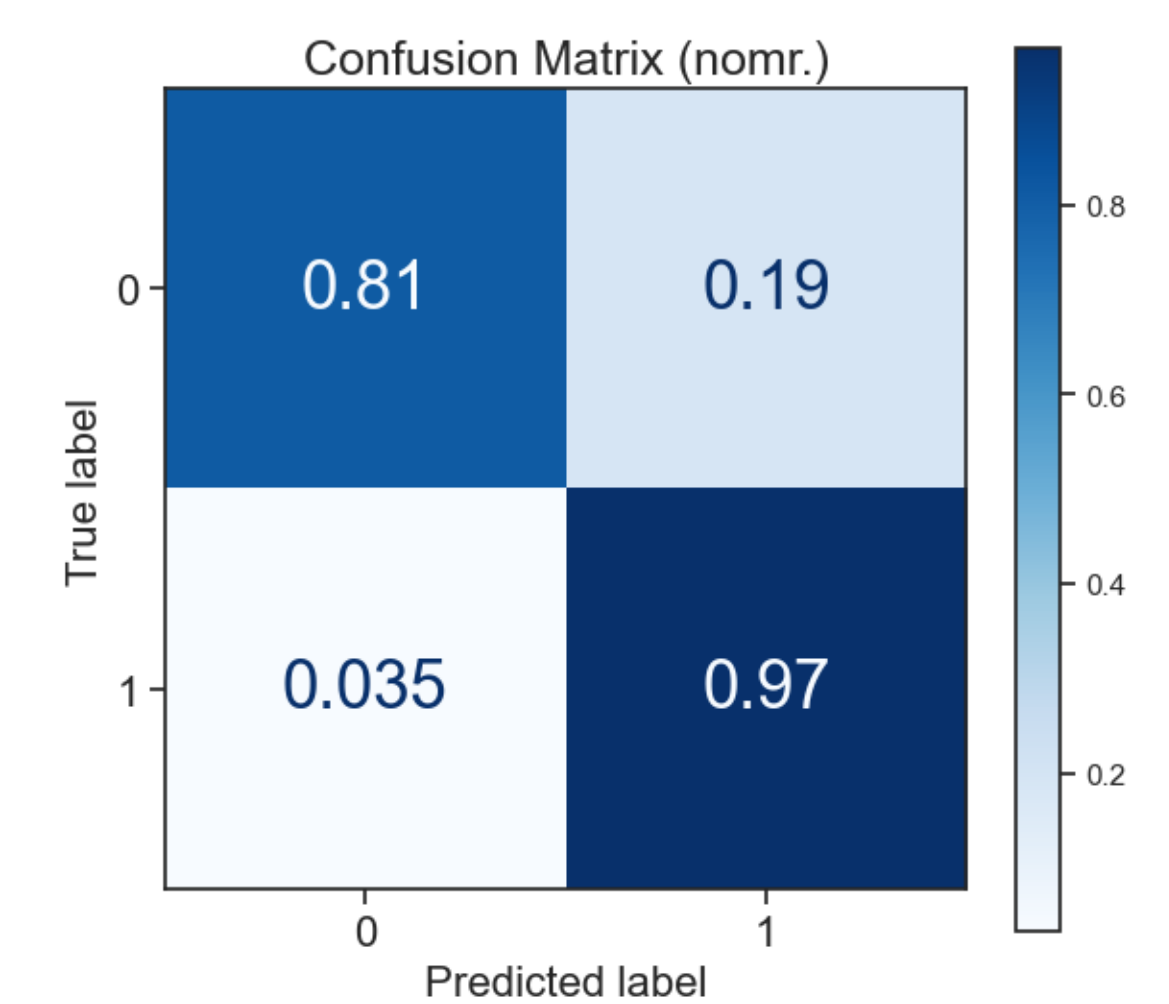
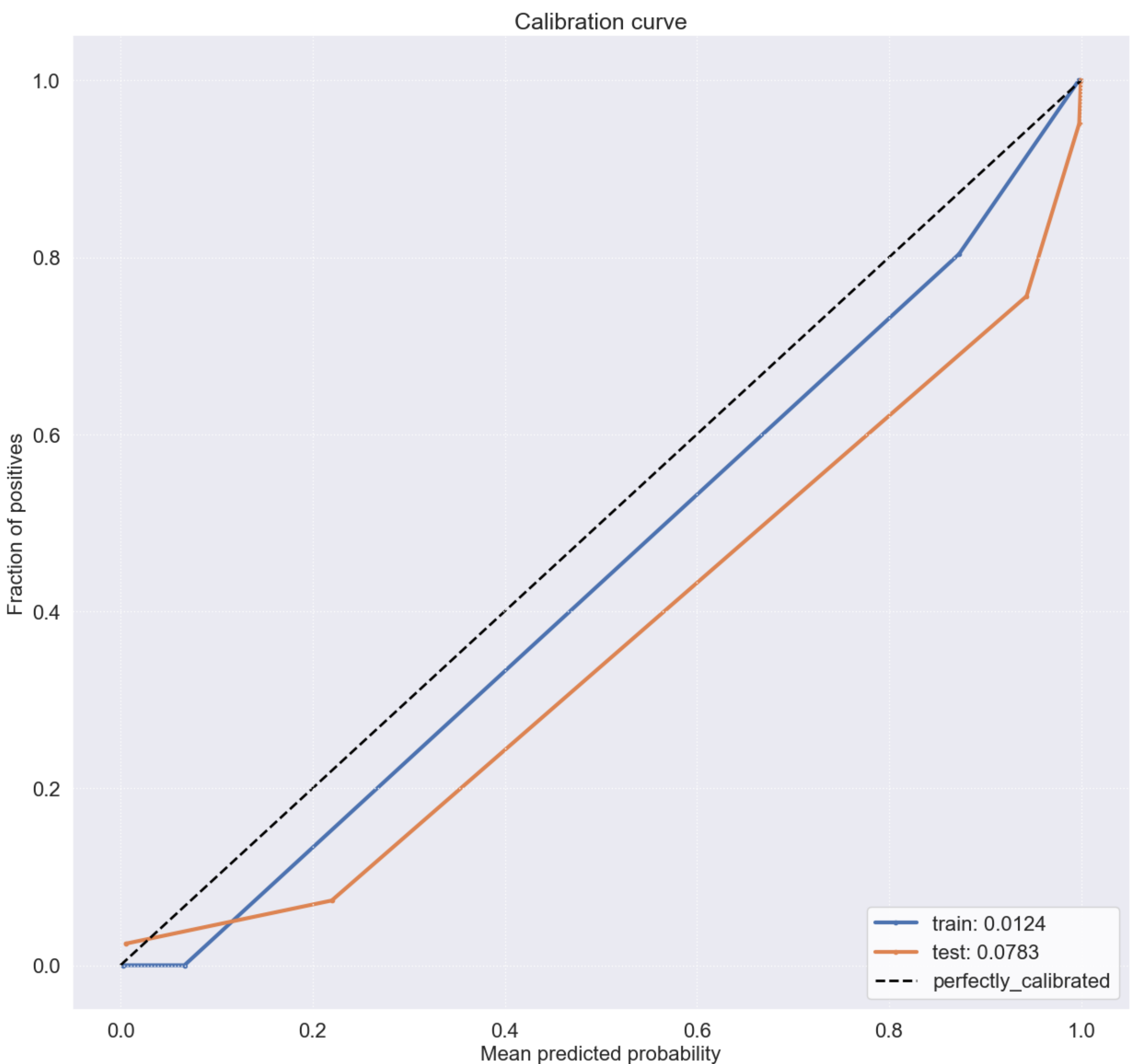
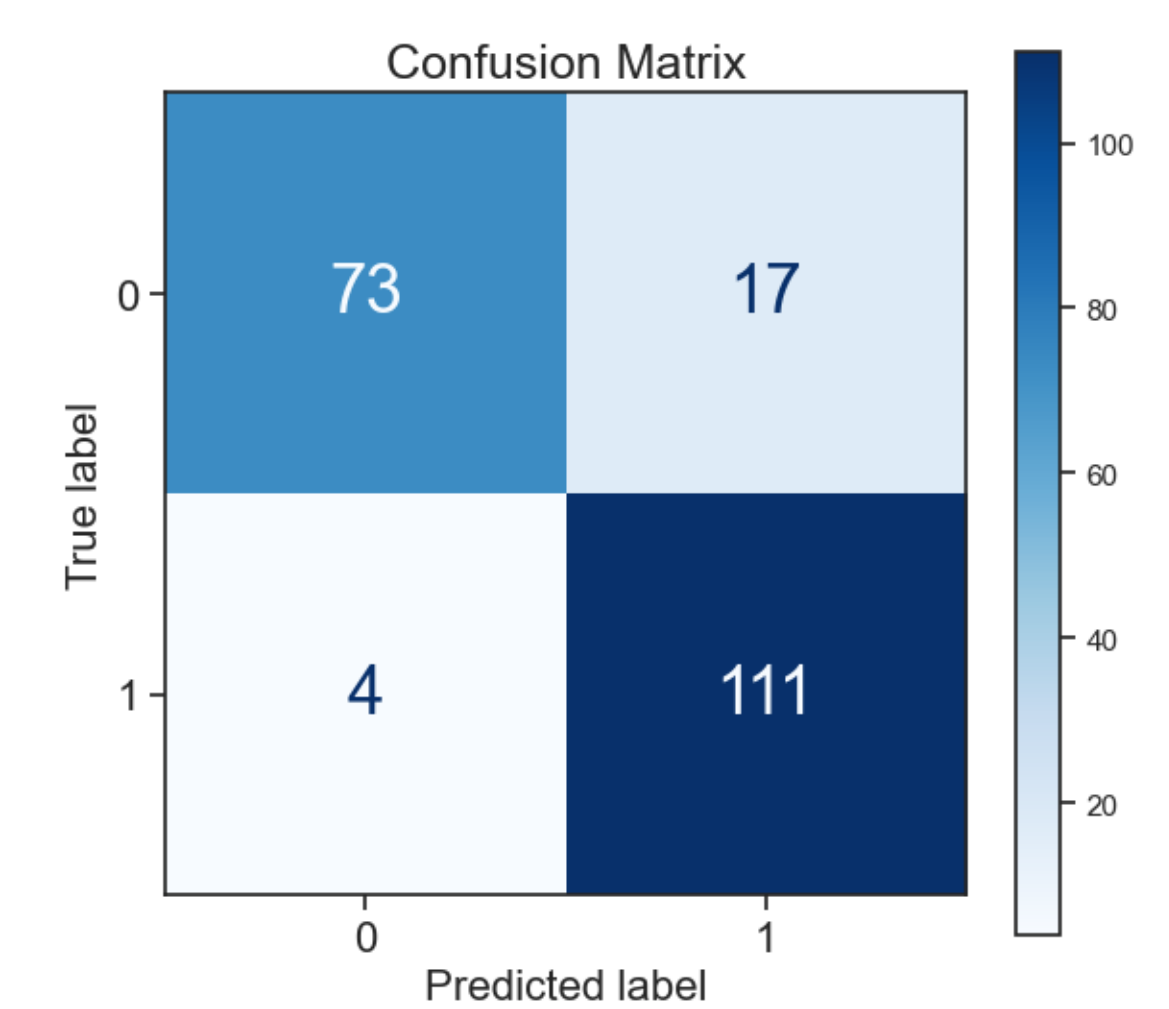


Metric	Train	Test
AUC	0.9998	0.9718
accuracy	0.9902	0.9024
balanced accuracy	0.9889	0.8949
recall_(sens)	1.0	0.9565
specificity	0.9778	0.8333
precision	0.9829	0.88
f1_score	0.9902	0.9016

Protein: P13945 - metric: f1

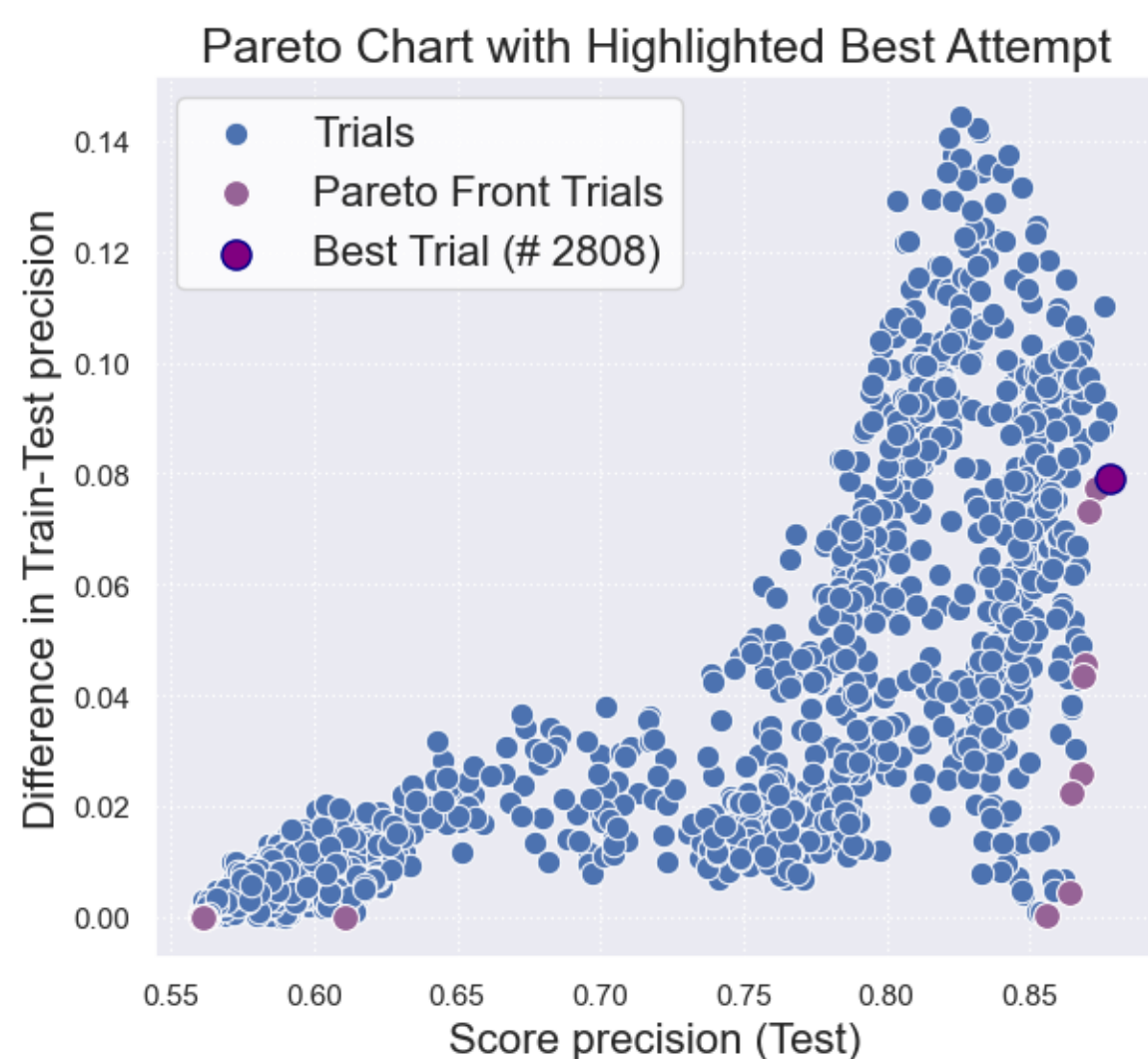
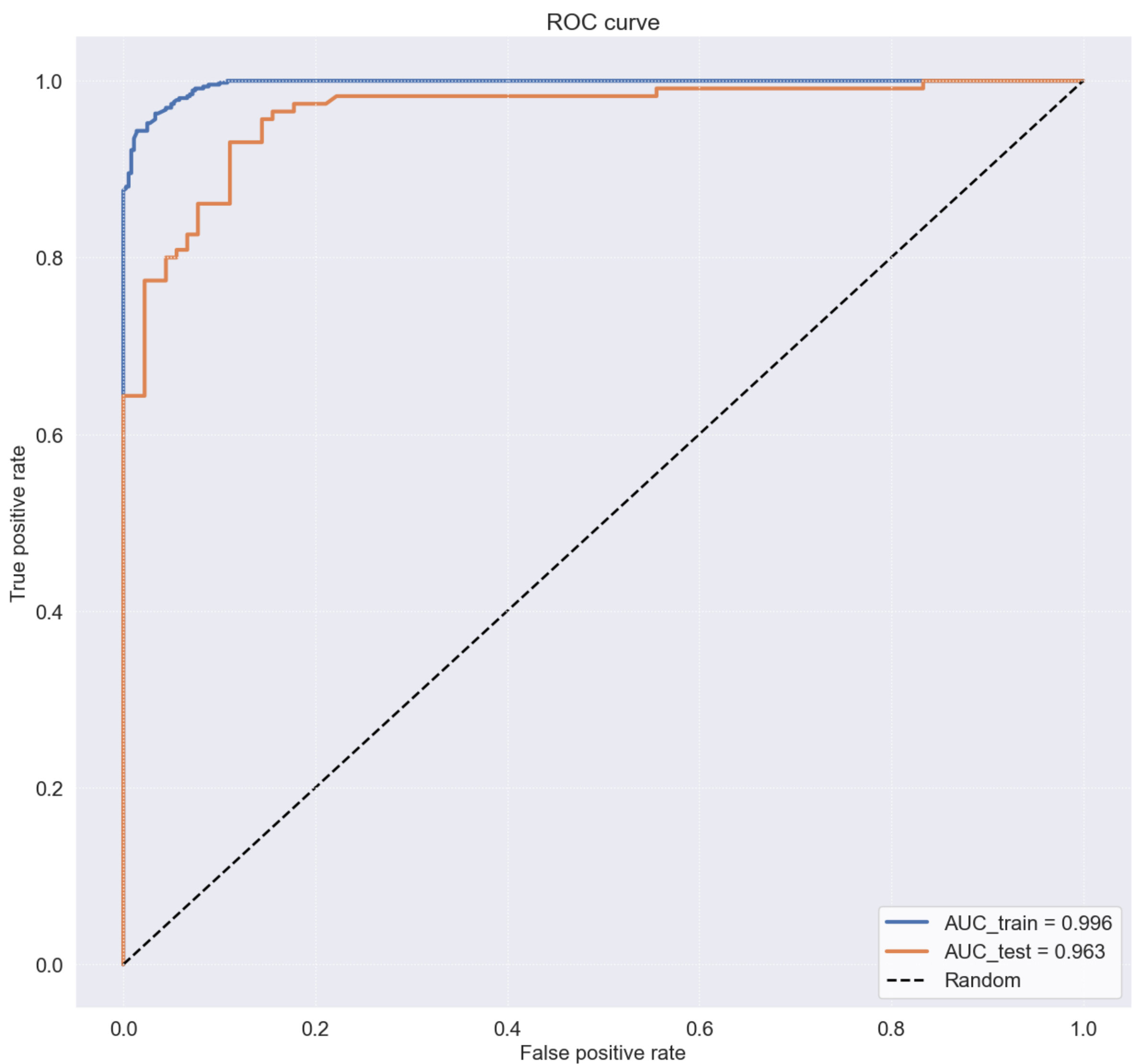
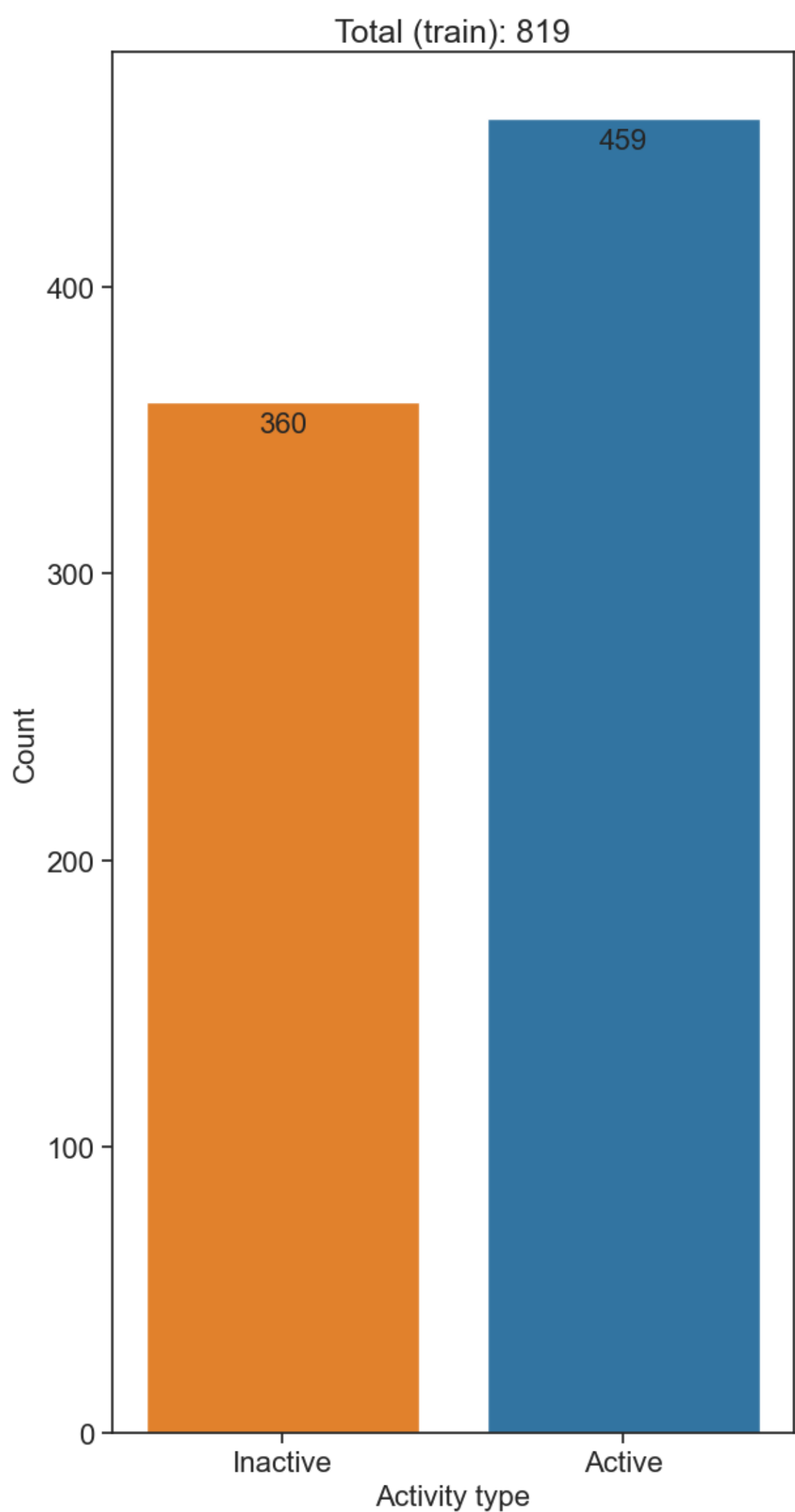


XGBoost Parameters	Value
alpha	1.5991
colsample_bytree	0.6745
gamma	0.0164
lambda	2.9563
learning_rate	0.0848
max_depth	7.0
min_child_weight	2.0
n_estimators	940.0
reg_alpha	0.6682
reg_lambda	0.2062
scale_pos_weight	6.2779
subsample	0.5343

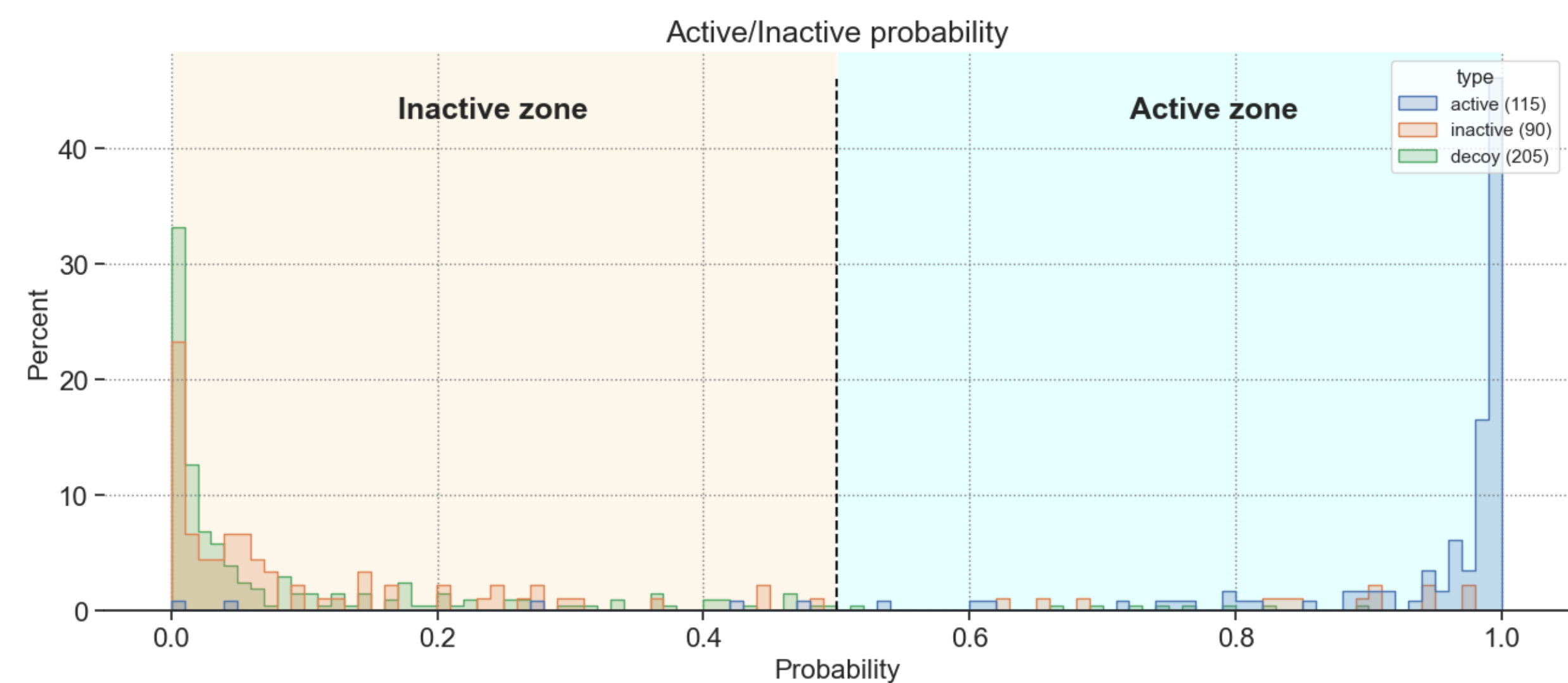
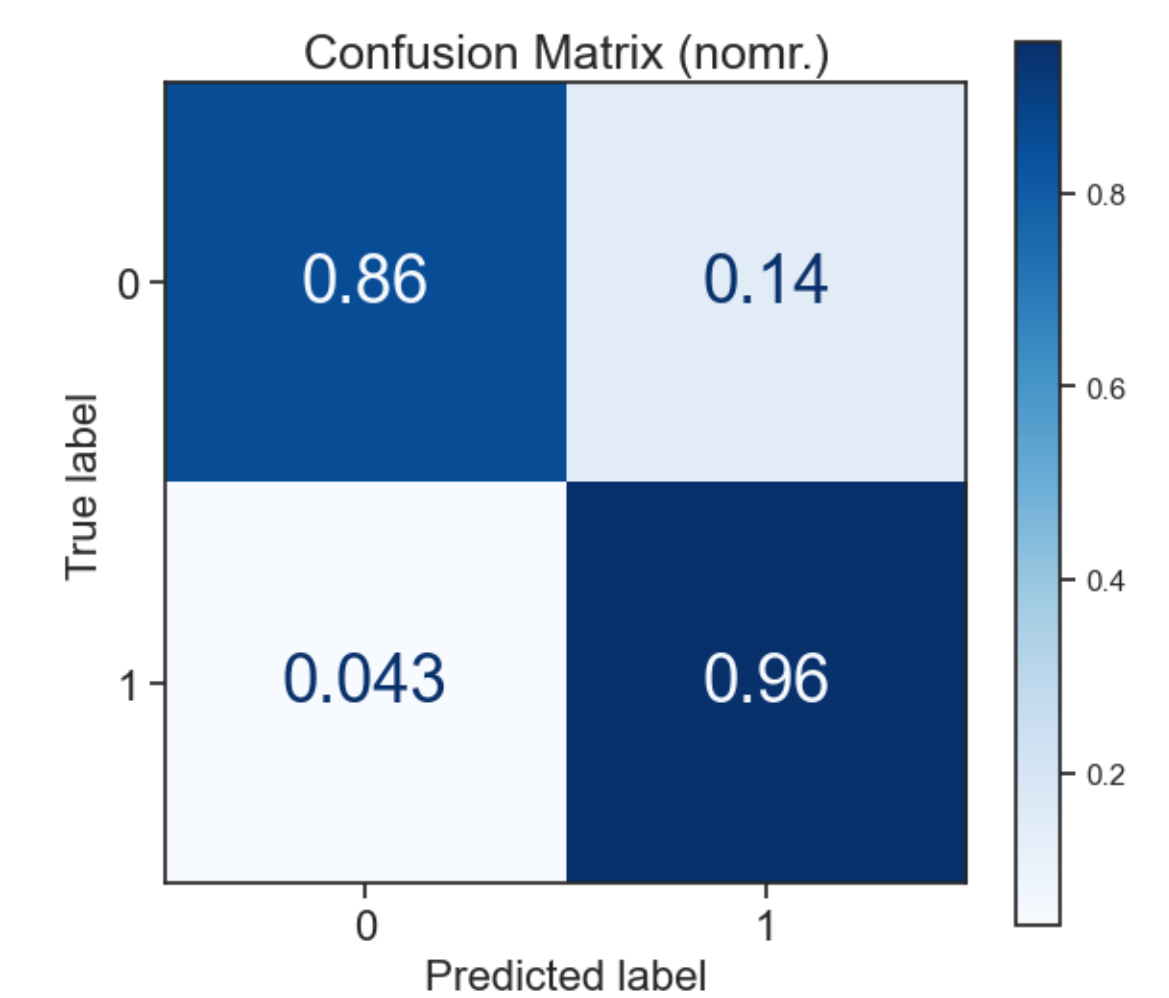
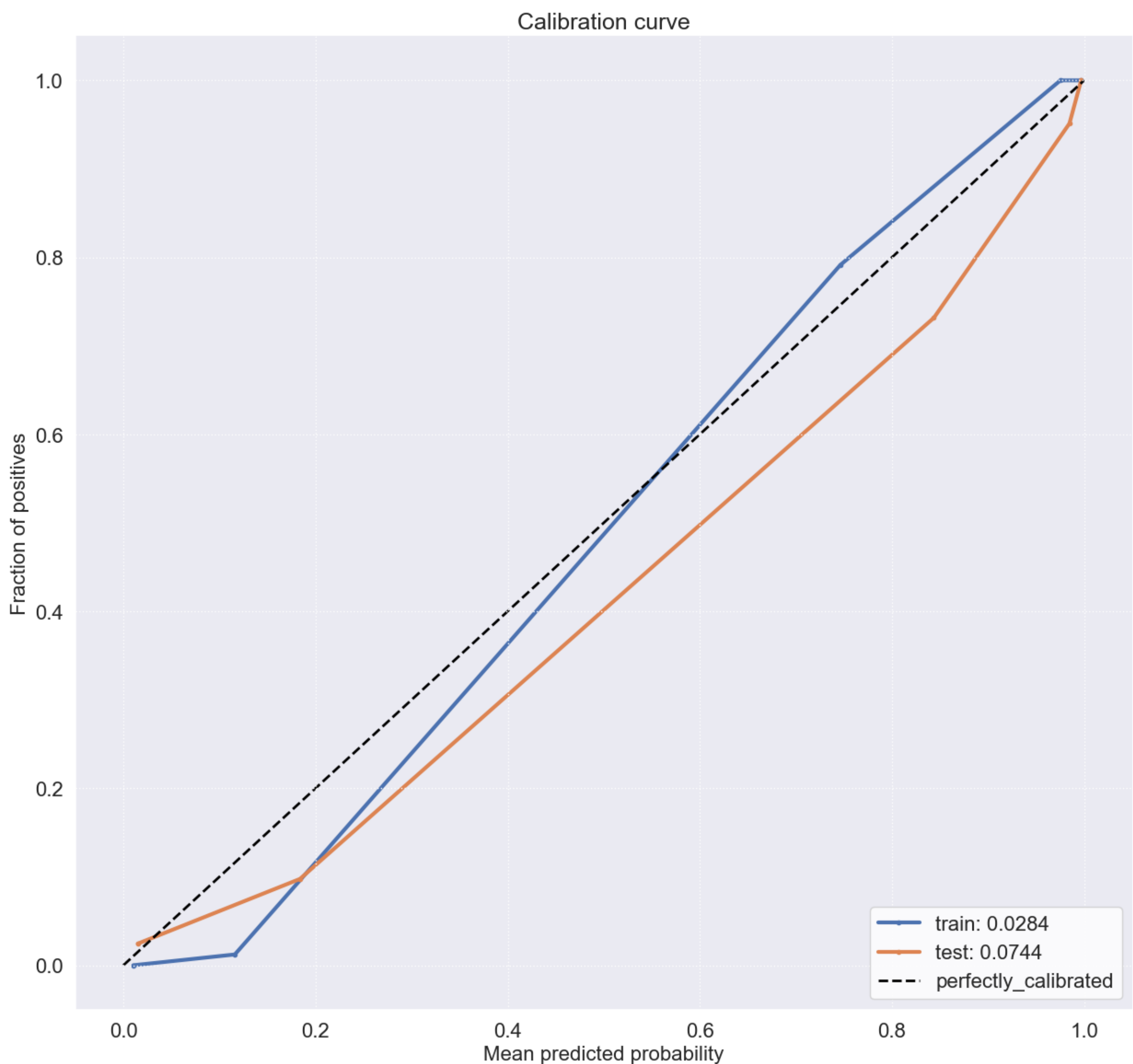
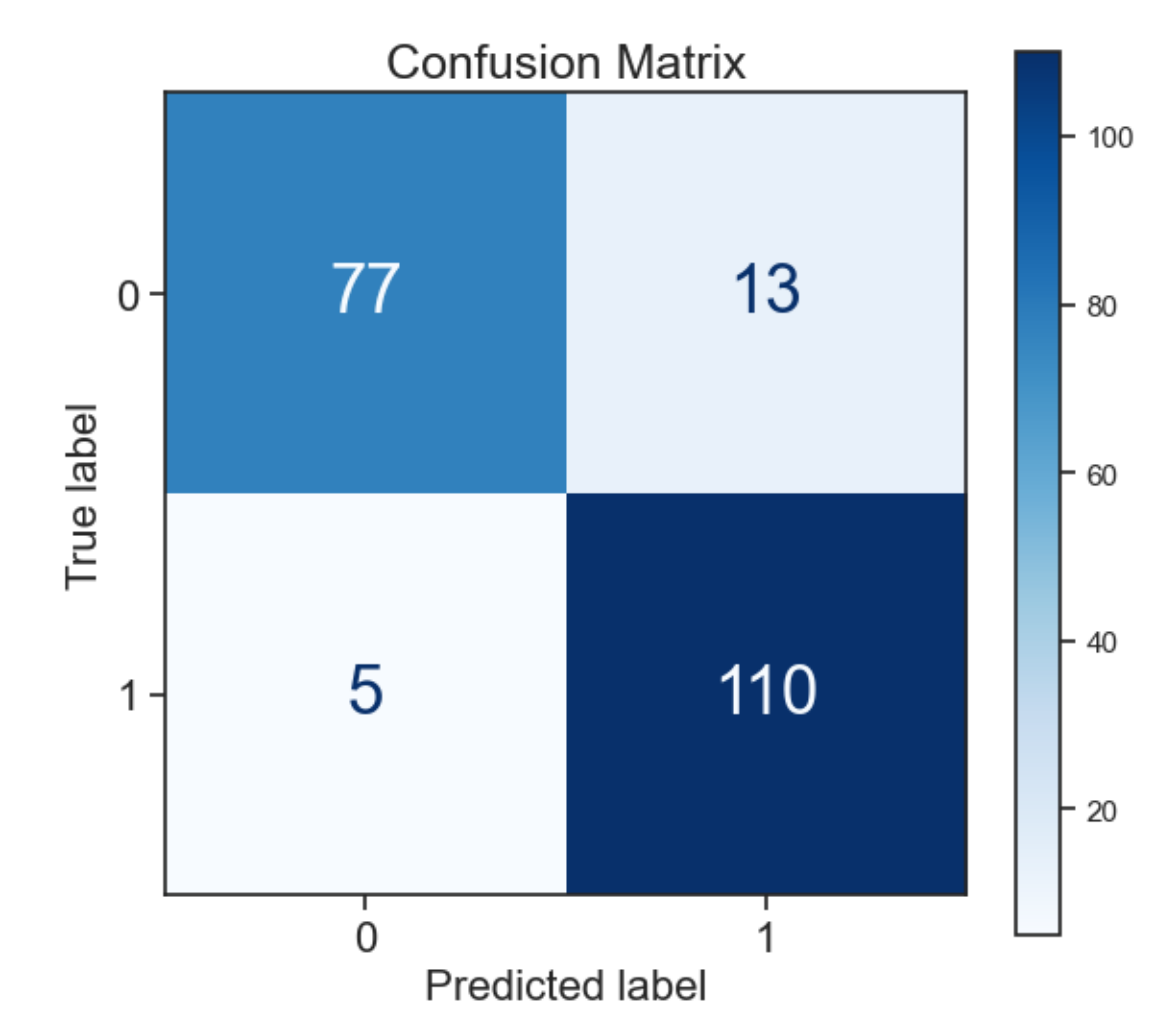


Metric	Train	Test
AUC	0.9999	0.969
accuracy	0.9866	0.8976
balanced accuracy	0.9847	0.8882
recall_(sens)	1.0	0.9652
specificity	0.9694	0.8111
precision	0.9766	0.8672
f1_score	0.9865	0.8963

Protein: P13945 - metric: precision

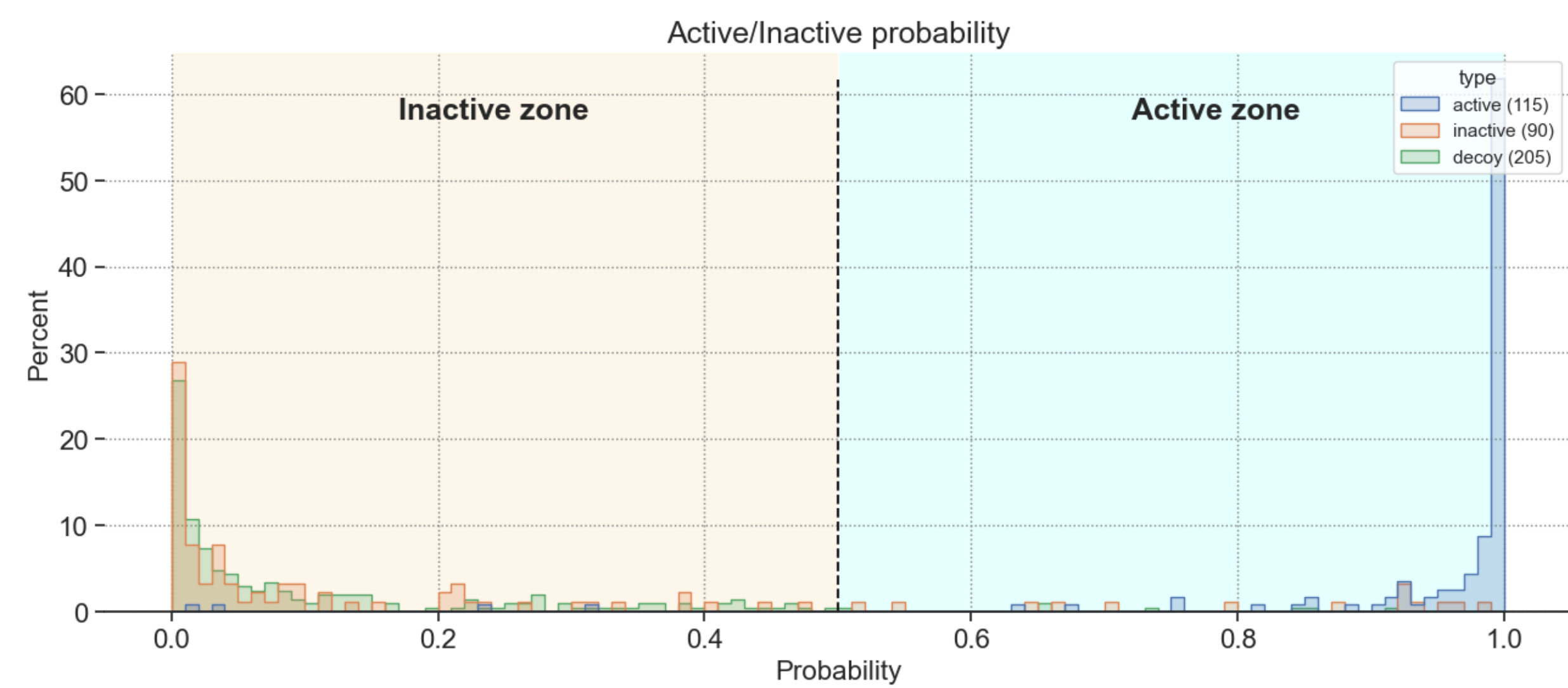
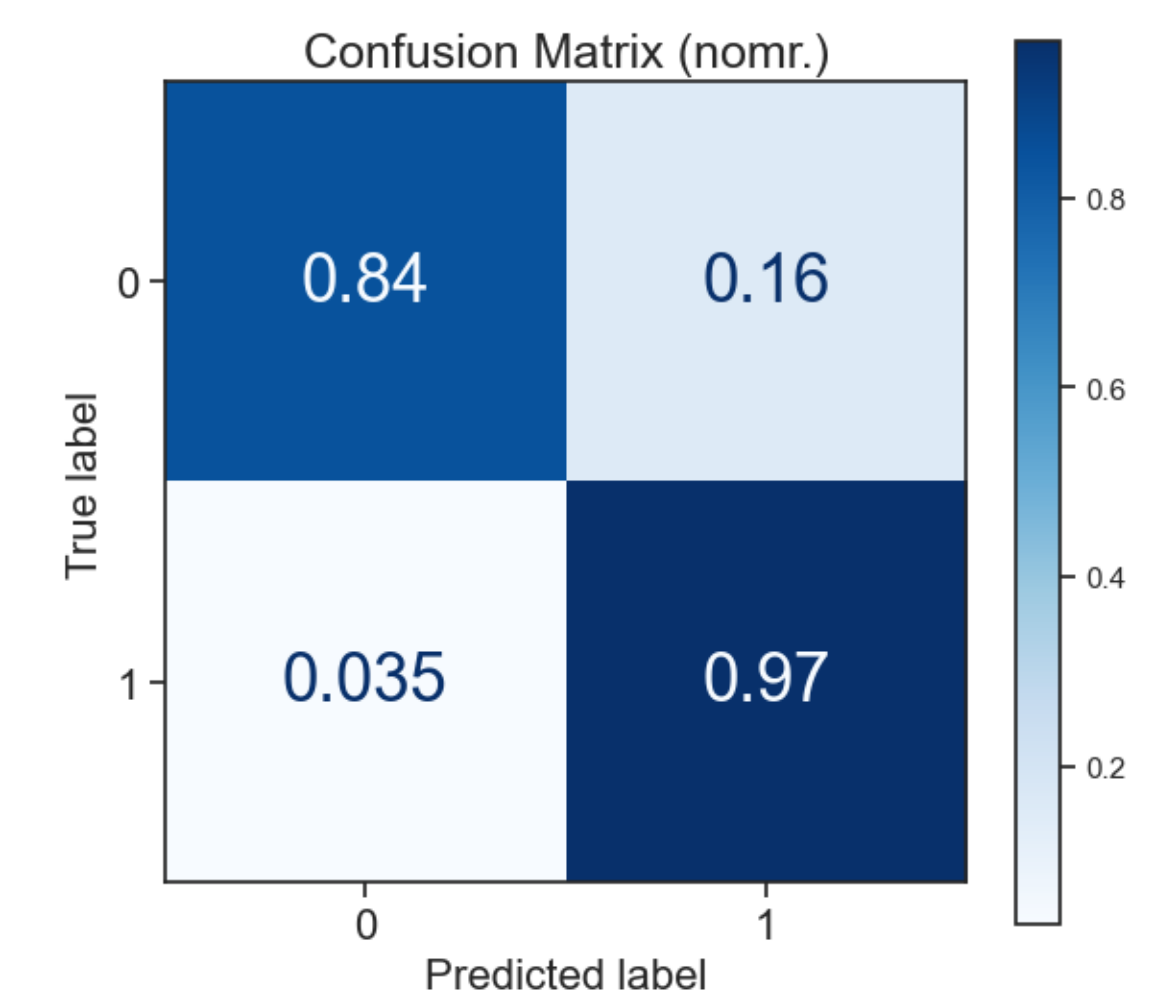
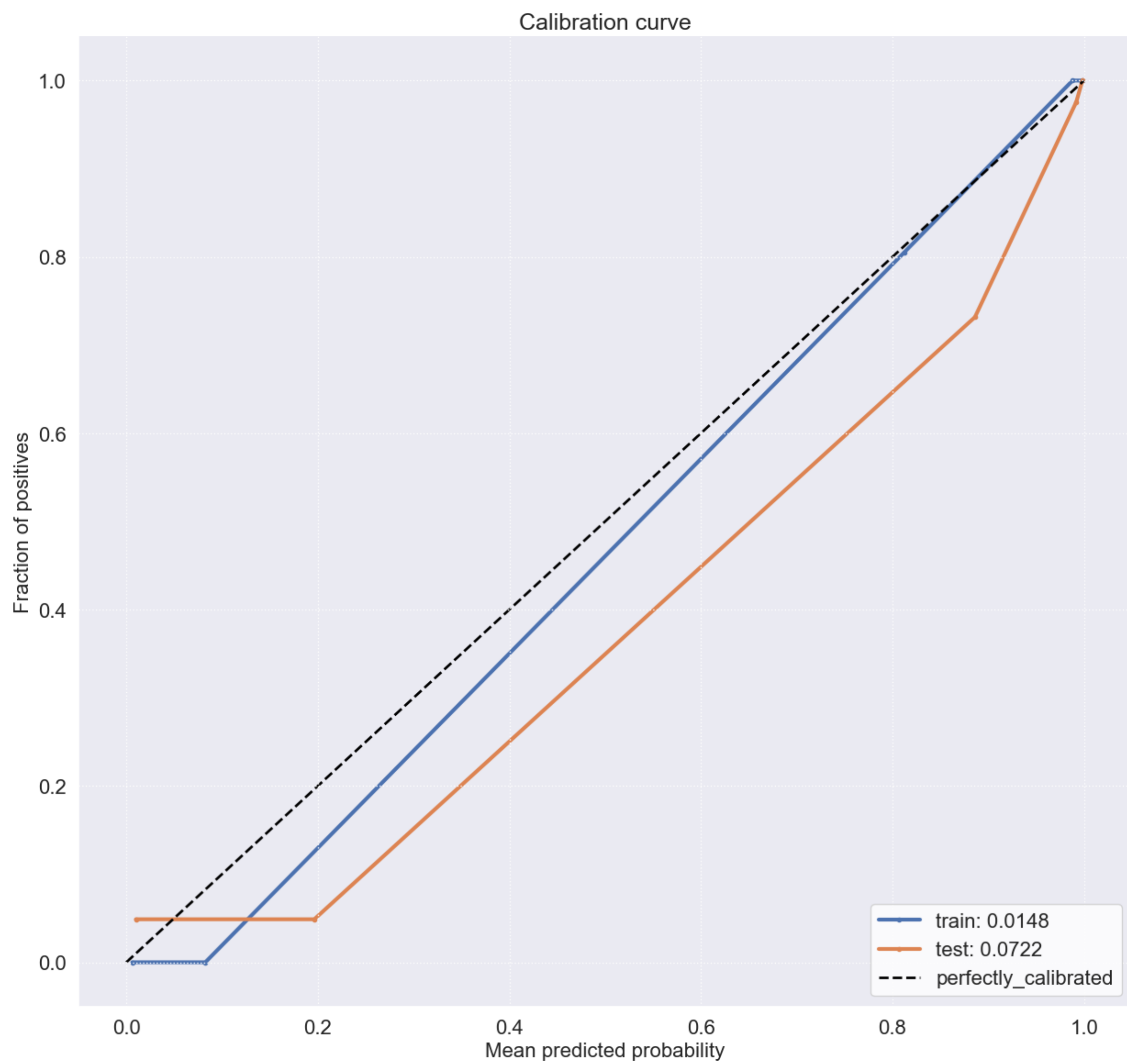
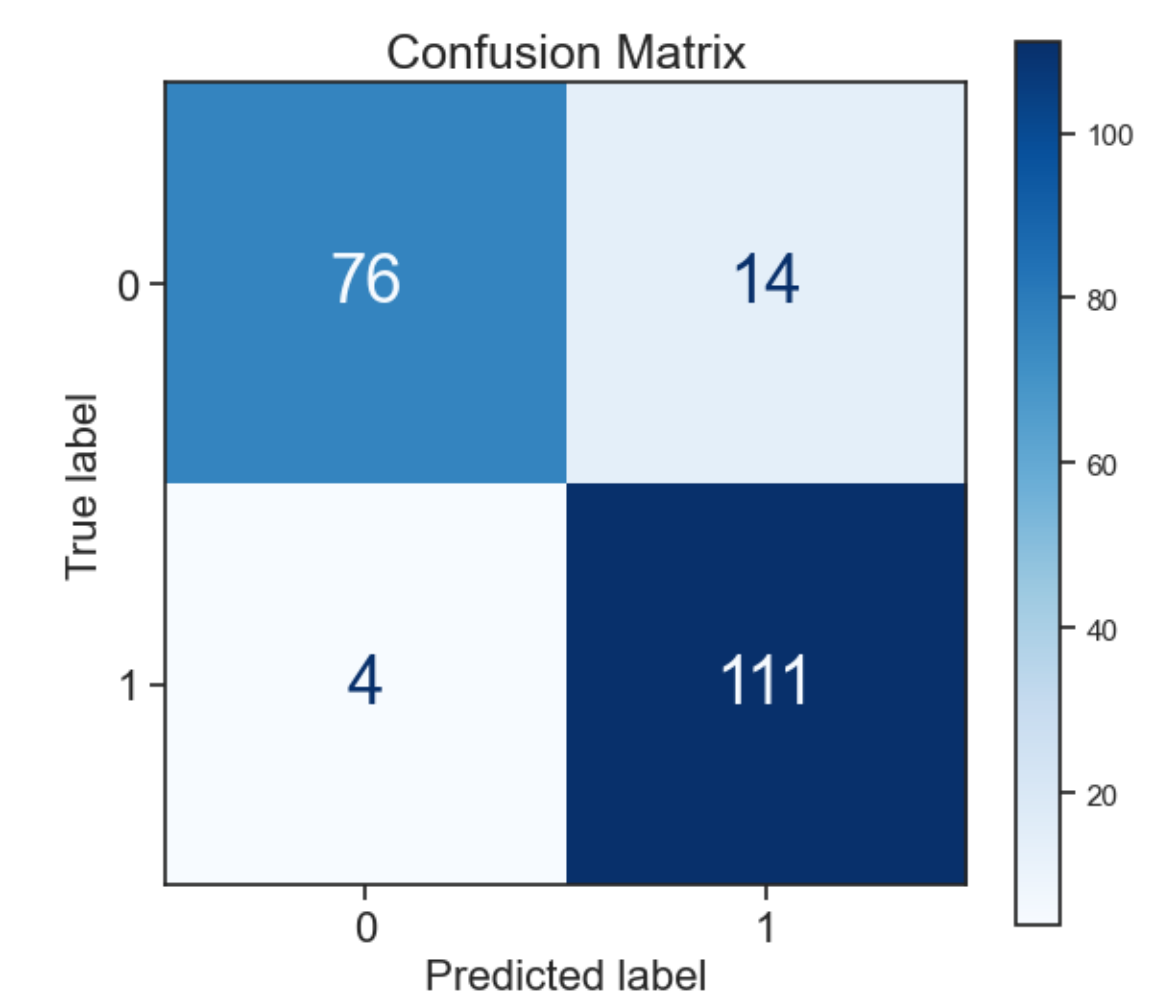
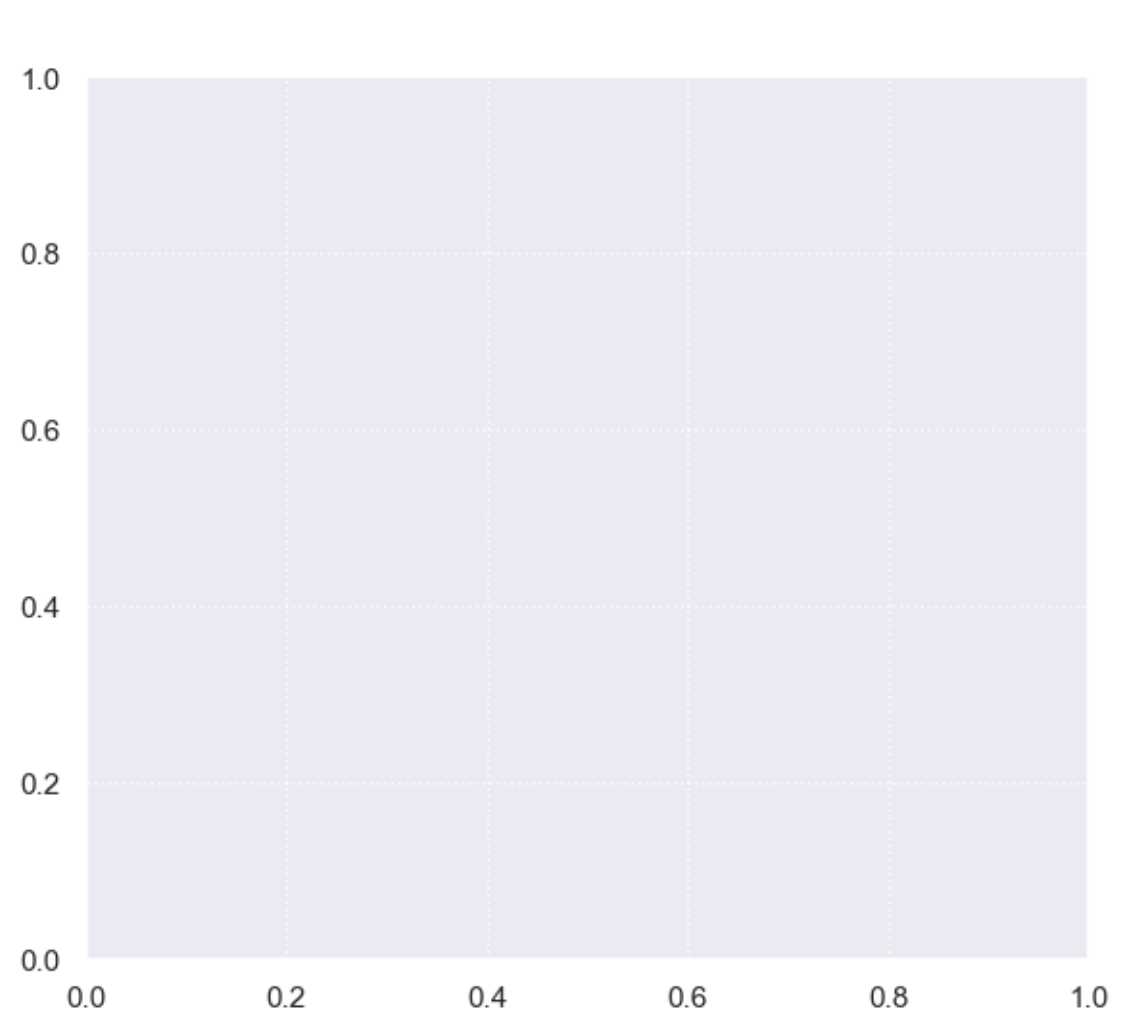
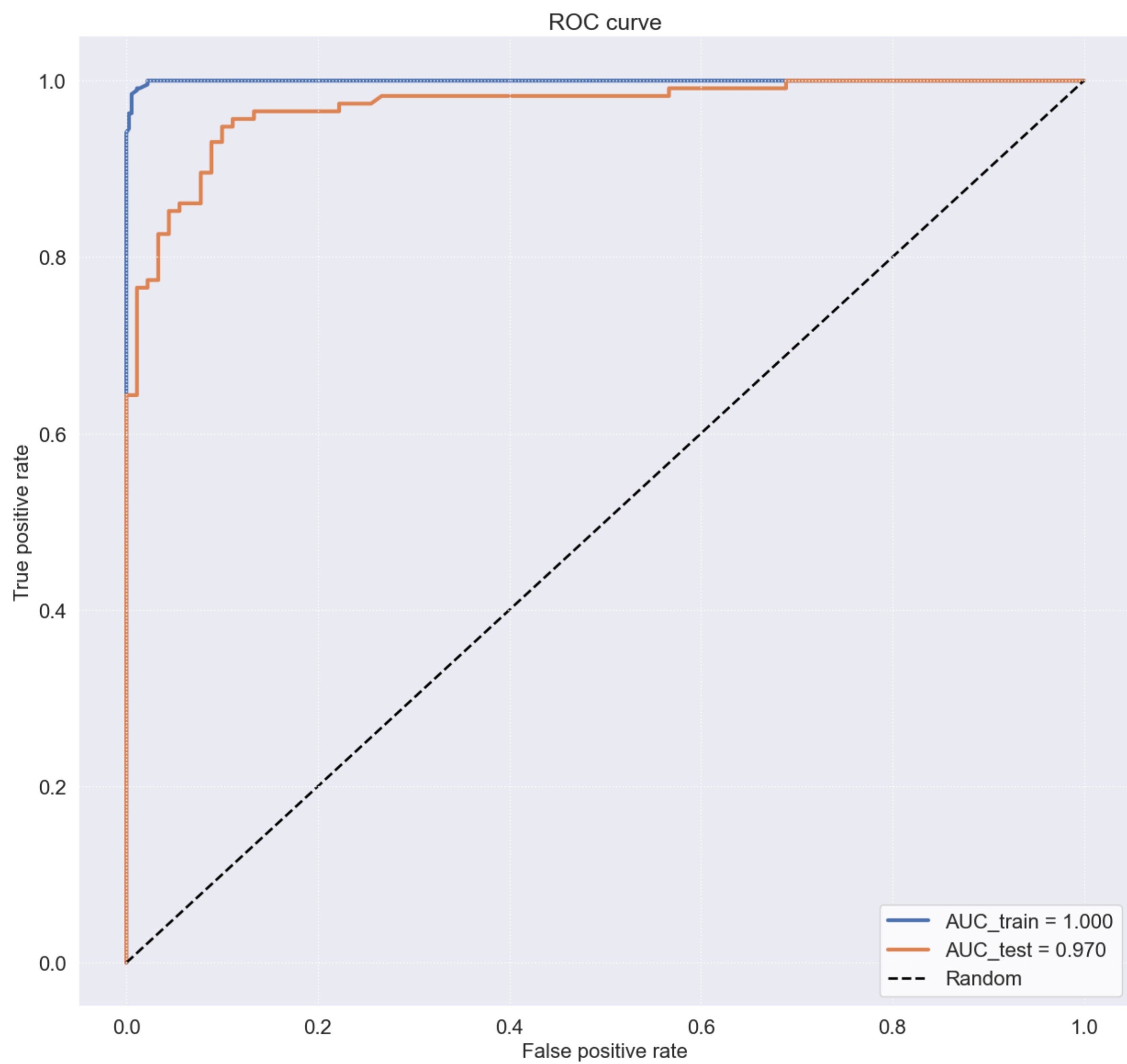
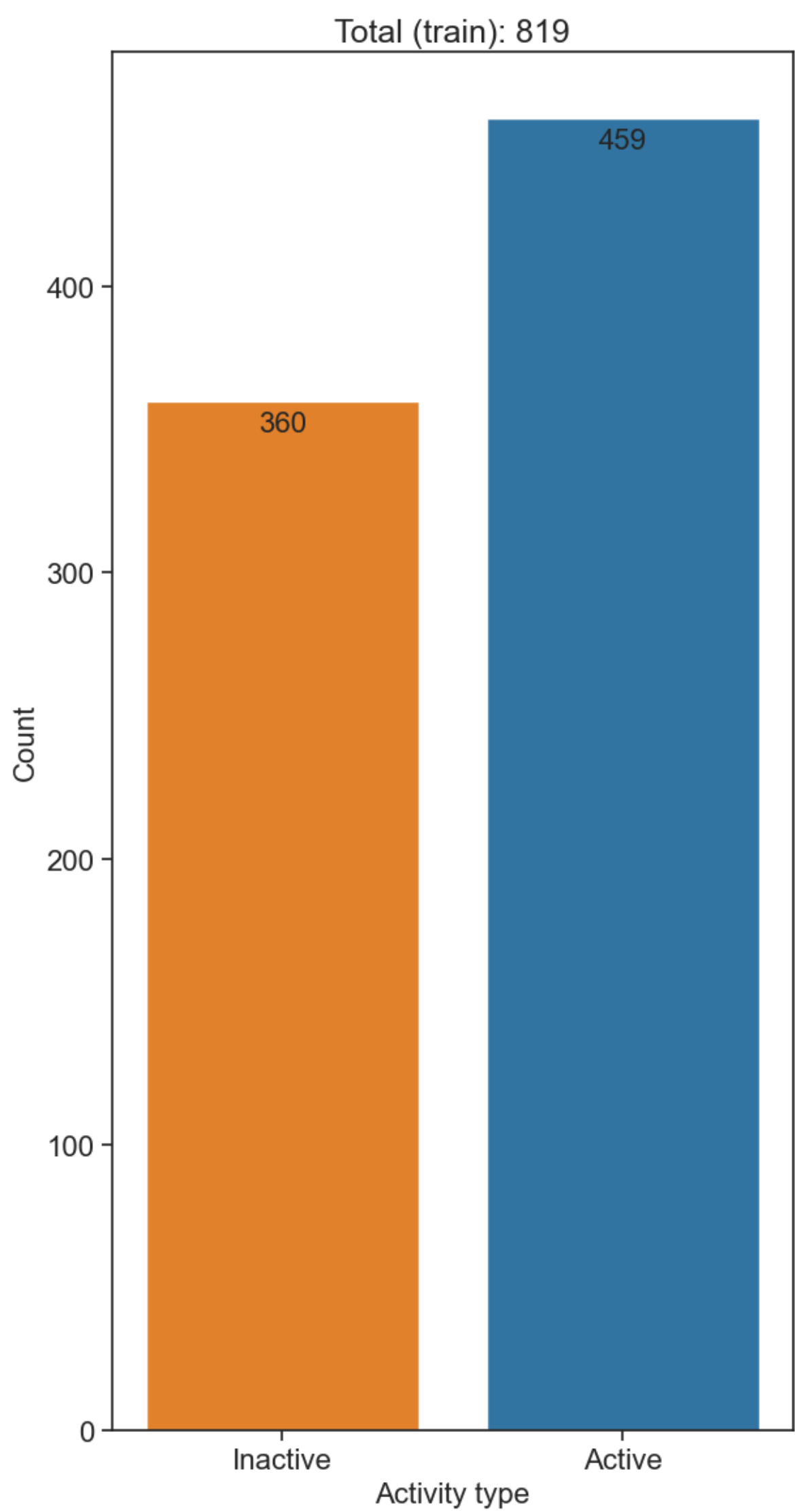


XGBoost Parameters	Value
alpha	2.6791
colsample_bytree	0.8286
gamma	0.2938
lambda	2.7745
learning_rate	0.243
max_depth	4.0
min_child_weight	6.0
n_estimators	390.0
reg_alpha	0.3539
reg_lambda	0.003
scale_pos_weight	1.2514
subsample	0.7348



Metric	Train	Test
AUC	0.9964	0.9632
accuracy	0.9621	0.9122
balanced accuracy	0.9608	0.906
recall_(sens)	0.9717	0.9565
specificity	0.95	0.8556
precision	0.9612	0.8943
f1_score	0.9621	0.9116

Protein: P13945 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9996	0.9703
accuracy	0.9878	0.9122
balanced accuracy	0.9861	0.9048
recall_(sens)	1.0	0.9652
specificity	0.9722	0.8444
precision	0.9787	0.888
f1_score	0.9878	0.9114